ORDER NO. MD9807130C3

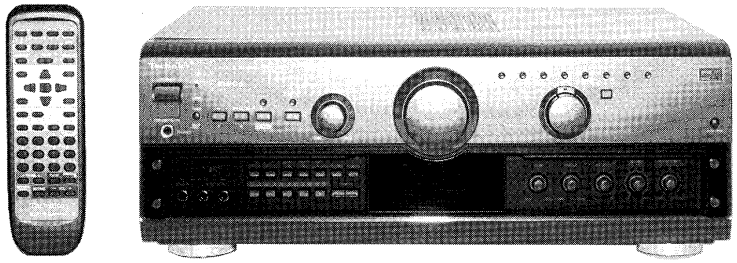
Service Manual

AV Control Stereo Receiver

DOLBY SURROUND PRO • LOGIC

Receiver

SA-AX6



Colour

(K) . . . . . .Black Type

Area

Suffix for Model No.	Area	Colour
(GC)	Asia, Latin America, Africa and Middle Near East	(K)
(GN)	Oceania	
(GK)	China	

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■ Specifications

■ Amplifier Section

Rated minimun sine wave RMS power output
20 Hz-20 kHz both channels driven
0.05% total harmonic distortion 80 W per channel (6Ω)
1 kHz continuous power output both channels driven
0.05% total harmonic distortion 100 W per channel (6Ω)
Total harmonic distortion
Rated power at 20 Hz – 20 kHz 0.05 % (6Ω)
Half power at 1 kHz 0.03 % (6Ω)
Power output at the DVD 6CH operation
20 Hz-20 kHz (each channels driven)
0.09% total harmonic distortion
Front 2 X 100 W (6Ω)
Center 100 W (6Ω)
Surround 2 X 100 W (6Ω)
Subwoofer (f=100 Hz) 100 W (6Ω)
Low frequency damping factor 30 (6Ω)
Load impedance
Front A or B 4 - 16 Ω
A and B 8 - 16 Ω
BI-WIRE 6 - 16 Ω
Center 6 - 16 Ω
Surround 6 - 16 Ω
Subwoofer 6 - 16 Ω
Dynamic headroom 2 dB (8 Ω)
Frequency response
PHONO RIAA standard curve (30 Hz-15 kHz) ± 0.8 dB
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3
10 Hz – 40 kHz, ± 3 dB
Input sensitivity
PHONO 0.4 mV (3 mV, IHF ' 66)
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3
27 mV (200 mV, IHF ' 66)
S/N (IHF A)
PHONO 70 dB (80 dB, IHF ' 66)
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3
75 dB (85 dB, IHF ' 66)
Input impedance
PHONO 47 kΩ
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3 22 kΩ
Tone controls
BASS 50 Hz, +10 to -10 dB
TREBLE 20 kHz, +10 to -10 dB
Adaptive control (volume at -30 dB) 50 Hz, +9 dB
Subwoofer cut off frequency control 50 – 200 Hz

■ FM Tuner Section

Frequency range 87.50 — 108.00 MHz
Sensitivity
S/N 30 dB 1.5 µV/75 Ω
S/N 26 dB 1.3 µV/75 Ω
S/N 20 dB 1.2 µV/75 Ω
46 dB quieting sensitivity 22 µV/75 Ω
Total harmonic distortion
MONO 0.2 %
STEREO 0.3 %
S/N
MONO 60 dB (75 dB, IHF)
STEREO 58 dB (71 dB, IHF)
Frequency response 20 Hz — 15 kHz (+1 dB, –2 dB)
Alternate channel selectivity 65 dB
Capture ratio 1.5 dB
Image rejection at 98 MHz 40 dB
IF rejection at 98 MHz 70 dB
Spurious response rejection at 98 MHz 70 dB
AM suppression 50 dB
Stereo separation
1 kHz 40 dB
Antenna terminal 75 Ω (unbalanced)

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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AM Tuner Section

Frequency range	522 — 1611 kHz
Sensitivty	20 µV, 330 µV/m
Selectivity	55 dB
IF rejection at 1000 kHz	50 dB

Video Section

Output voltage at 1 V input (unbalanced)	1 ± 0.1 Vp-p
Maximum input voltage	1.5 Vp-p
Input/output impedance	75 Ω

General

Power consumption	300 W
Power supply (GC)	AC 110 – 127 V / 220 – 240 V, 50/60 Hz
(GK)	AC 220 – 230 V, 50 Hz
(GN)	AC 230 – 240 V, 50 Hz
Dimensions (W x H x D)	430 x 158 x 378.4 mm
Weight	11 kg

Notes :

1. Specifications are subject to change without notice. Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum

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Before Use

[FOR (GC) area]

Be sure to discconnect the mains cord before adjusting the voltage selector.
Use a minus(–) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.
(If the power supply in your area is 117V or 120V, set to the "127V" position.)
Note that this unit will be seriously damaged if this setting is not made correctly. (There is not voltage selector for some countries; the correct voltage is already set.)

Before Repair and Adjustment

Disconnect AC power, discharge 2 Power Supply Capacitors C703, C704, C705 and C706 through a 10Ω , 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
For GC: Current consumption at AC 110 – 127 V, 220 – 240 V 50/60Hz in NO SIGNAL mode should be 484 ~ 656 mA and 272 ~ 368 mA respectively.
For GK: Current consumption at AC 220 V – 230 V, 50Hz in NO SIGNAL mode should be 298 ~ 402 mA.
For GN: Current consumption at AC 230 V – 240 V, 50Hz in NO SIGNAL mode should be 130 ~ 410 mA.

Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed :

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

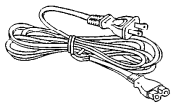
1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

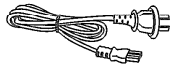
Accessories

AC power supply cord



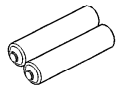
For GK (RJA0055-K) ..... 1pc.

For GC (RJA0019-2K) ..... 1pc.

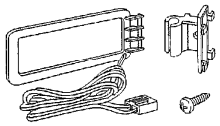


For GN (RJA0035-K) ..... 1pc.

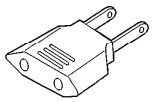
Remote control (EUR646469) ..... 1pc.



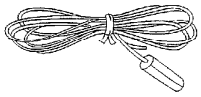
Batteries ..... 2pc.



AM loop antenna set (RSA0010) ..... 1pc.



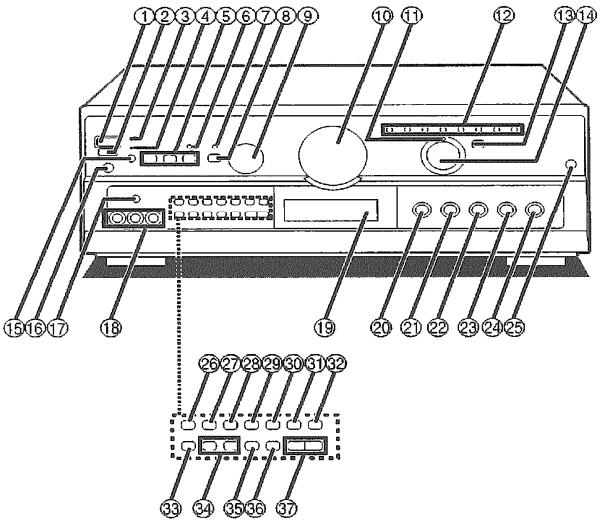
AC cord adaptor (RJP1SG04-H) ..... 1pc.



FM indoor antenna (RSA0007) ..... 1pc.

Antenna adaptor (RFE0014) ..... 1pc.

Front Panel Controls



① Power "STANDBY ⏻/ON" switch (POWER, STANDBY ⏻/ON)
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

② Remote control signal sensor

③ "STANDBY" indicator (STANDBY)
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

④ Wake timer indicator (WAKE)

⑤ Speaker select buttons (SPEAKERS A, B, BI-WIRE)

⑥ Bi-amp indicator (BI-AMP)

⑦ Subwoofer adaptive control indicator (SUBWOOFER ADAPTIVE CONTROL)

⑧ Subwoofer adaptive control ON/OFF button

⑨ Subwoofer level control (SUBWOOFER LEVEL)

⑩ Volume control (VOLUME)

⑪ DVD 6ch input indicator

⑫ Input indicators

⑬ DVD 6ch input select button (DVD 6CH INPUT)

⑭ Input selector (INPUT SELECTOR)

⑮ Timer setting button (TIMER)

⑯ Headphones jack (PHONES)

⑰ TV/VCR 2 input select button (▬ TV, ▬ VCR 2)

⑱ VCR 2 input terminals (VCR 2)

⑲ Display

⑳ Bass control (BASS)

㉑ Treble control (TREBLE)

㉒ Balance control (BALANCE)

㉓ Bi-amp balance control (BI-AMP BALANCE)

㉔ Subwoofer low pass filter control (SUBWOOFER LOW PASS FILTER)

㉕ Front cover open button (PUSH OPEN)

㉖ DOLBY PRO LOGIC OFF/ON button (OFF/ON)

㉗ DOLBY PRO LOGIC mode select button (□□ PRO LOGIC)

㉘ Delay time adjust button (DELAY TIME)

㉙ Center mode select button (CENTER MODE)

㉚ Band/FM mode select button (-BAND, –FM MODE)

㉛ Radio station presetting button (PRESET)

㉜ Memory button (MEMORY)

㉝ RDS display mode select button (DISPLAY MODE)

㉞ PTY select buttons (PTY SELECTOR)

㉟ EON ON/OFF button (EON)

㊱ PTY search button (PTY SEARCH)

㊲ Tuning buttons (TUNING)

Connections

Make sure that the power supply for all components has been turned off before making any connections.

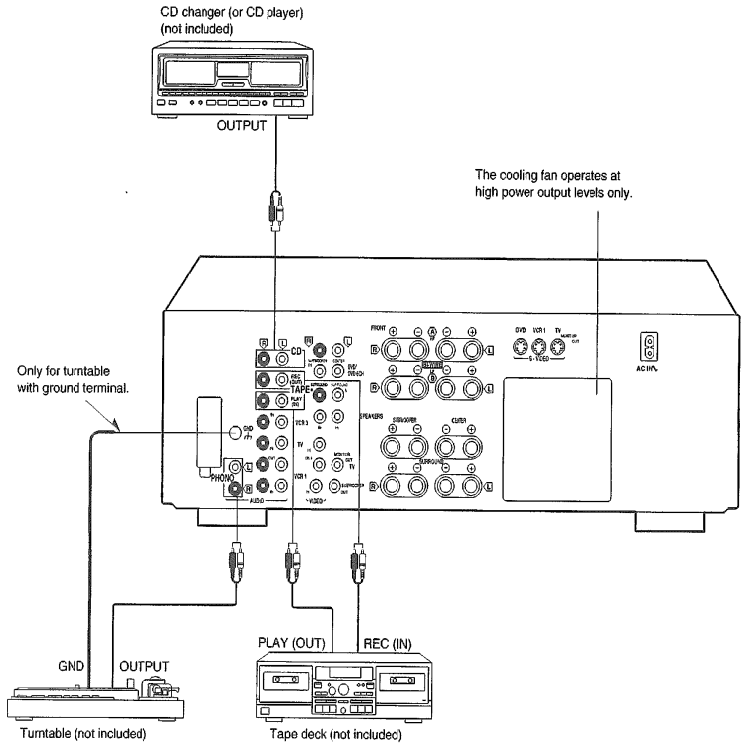
Refer to the operating instructions of the equipment to be connected.

Note

Do not place books, etc., on the top of this unit or block the heat radiation vents in any way.

Connecting audio equipment

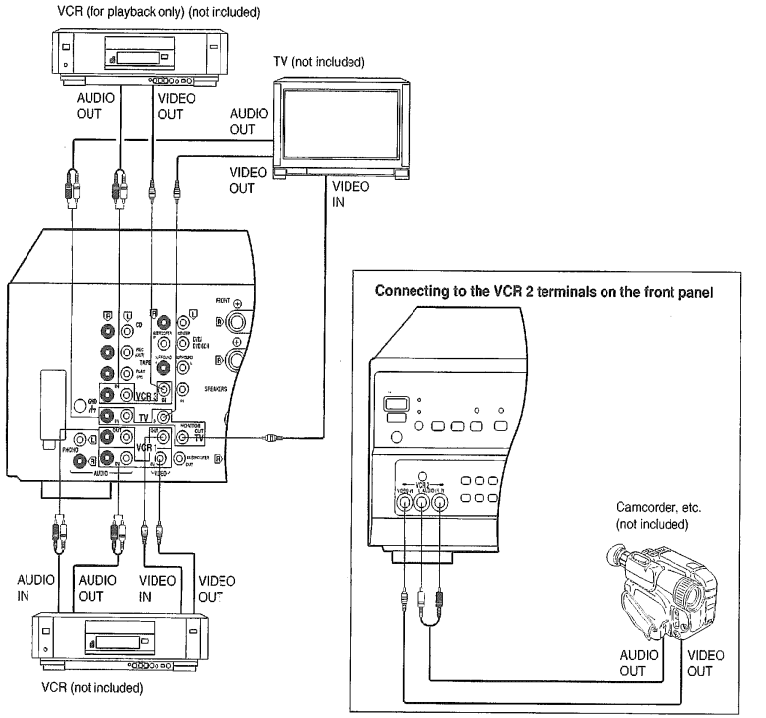
Stereo connection cable (not included)
White (L)
Red (R)



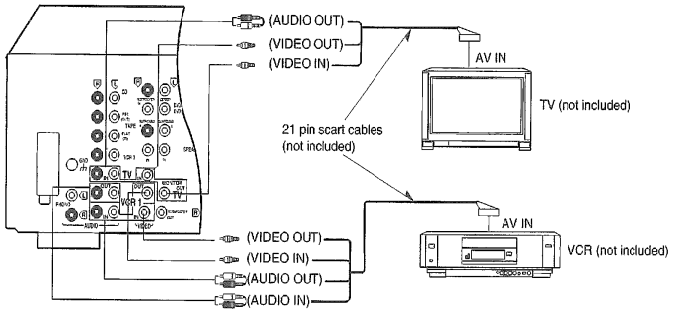
Connecting video equipment

Stereo connection cable (not included)
White (L)
Red (R)

Video connection cable (not included)



To connect video equipment with a 21 pin terminal

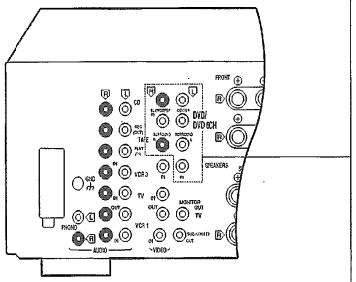


Connecting a DVD player

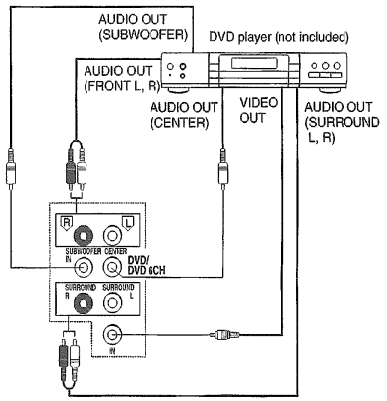
Stereo connection cable (not included)
White (L)
Red (R)

Monaural connection cable (not included)

Video connection cable (not included)



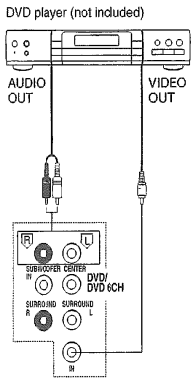
Connecting a DVD player with 6 channel discrete output



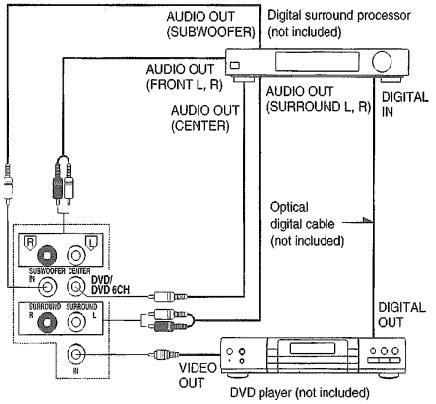
Note

If you want to connect a DVD player with DISCRETE 6CH output using only 2 channels, make the connection through the DVD player's MIXED AUDIO OUT terminals and this unit's DVD/DVD 6CH L and R terminals.
Do not connect any cables to this unit's DVD/DVD 6CH CENTER, SUBWOOFER IN, or SURROUND L and R terminals.

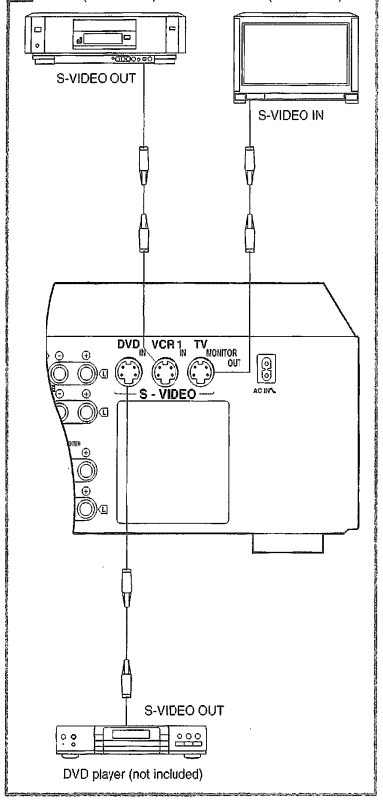
Connecting a DVD player with 2 channel output



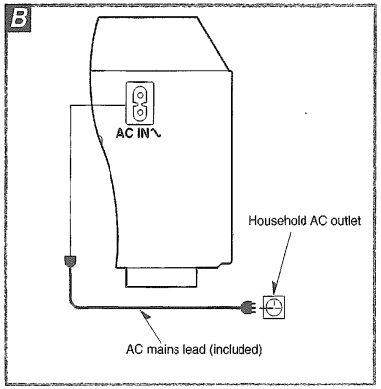
You can enjoy 6 channel discrete sound by making the below connections.



A



B



Connections to/from S-VIDEO terminals

S-VIDEO cable (not included)

This receiver has an S-VIDEO terminal for a DVD player, VCR (VCR 1 only) and TV.

Caution when using a TV with an S-VIDEO terminal

On some television models, the video signal from components which do not use S-VIDEO input and are connected only to the VIDEO terminals will not be shown on the television screen.
If this occurs, use one of the following methods to view the video signal.

Does the television have a "VIDEO/S-VIDEO" selector swtch?

YES — Set the switch to "VIDEO".

NO —
If the television has two or more video input terminals
Connect the VIDEO terminal ard the S-VIDEO terminal to different video input terminals on the television, and switch the picture on the television according to the video source being played.

If the television has only one video input terminal
Disconnect the S-VIDEO cable connected to the television's S-VIDEO terminal and connect only the video terminal.

Note

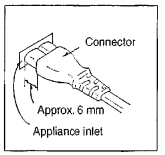
When using S-VIDEO terminals be aware of the following.
Video signals input into the VIDEO terminals cannot be output from S-VIDEO terminals or vice versa.

AC mains lead

Connect this mains lead after all other cables and cords are connected.

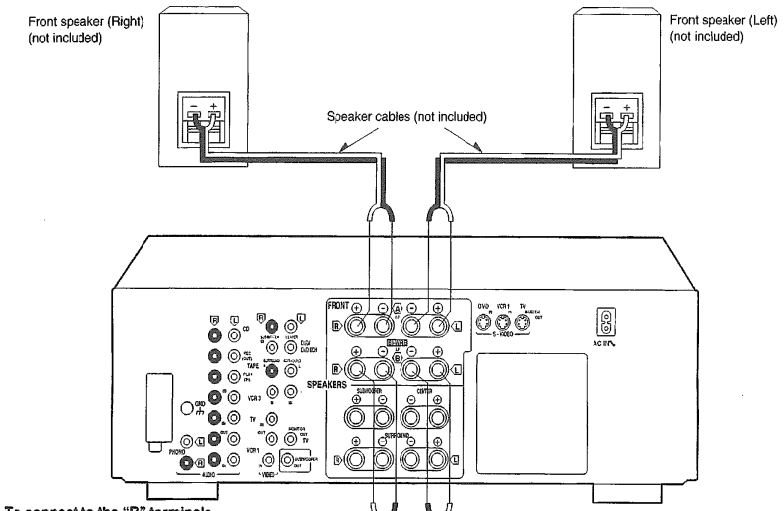
BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE THE FOLLOWING CONNECTION.

Insertion of Connector
Ever when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.
However there is no problem using the unit.



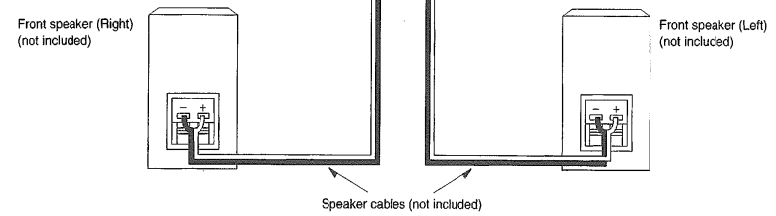
Speaker connections

To connect to the "A" terminals



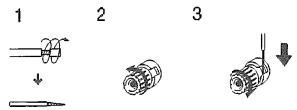
To connect to the "B" terminals

For connection to a second pair of speakers.



Speaker impedance:		
	A or B:	4–16 Ω
	A and B:	8–16 Ω
	BI-WIRE:	6–16 Ω

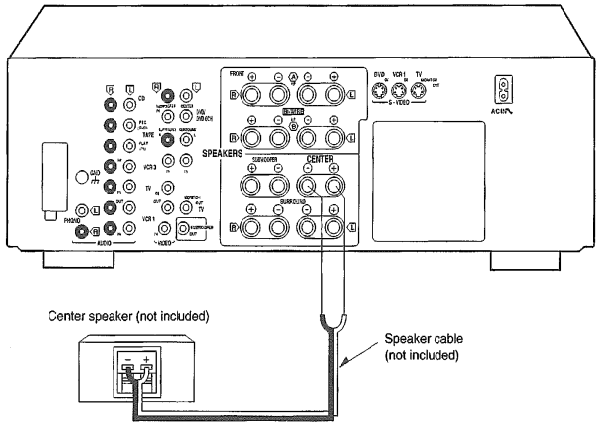
Connecting the speaker cable



Note

To prevent damage to circuitry, never short-circuit positive (+) and negative (–) speaker wires.

Center speaker

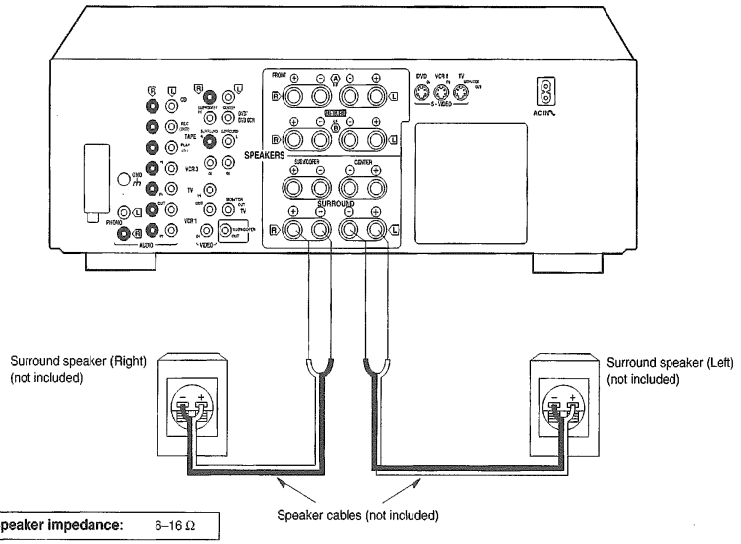


Speaker impedance:	6–16 Ω

Surround speakers

Note

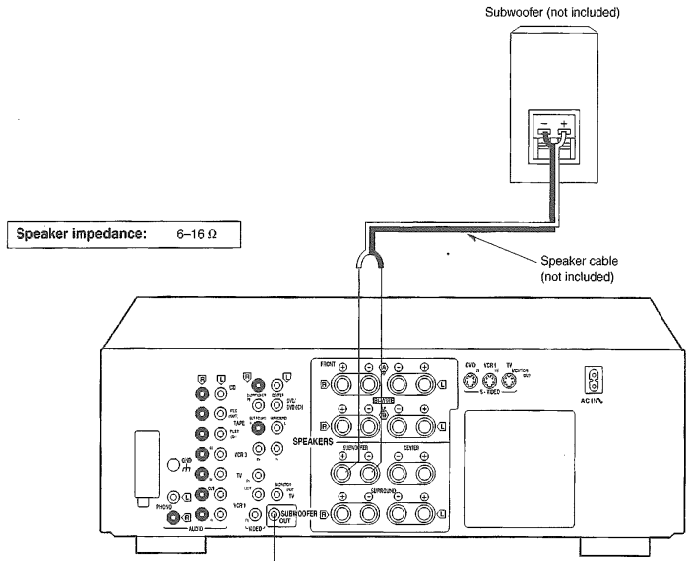
1. Both surround speakers must be connected before sound can be heard from them.
2. Do not connect the surround speakers to the front speaker terminals, as they may be damaged.



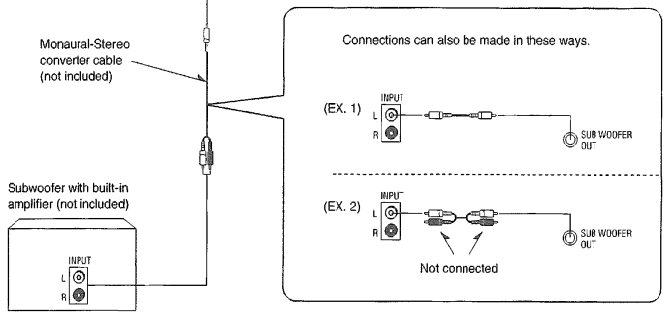
Speaker impedance:	8–16 Ω

Subwoofer

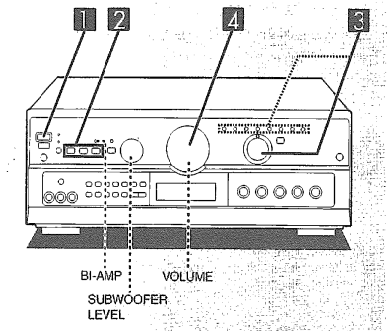
To connect a subwoofer which does not have a built-in amplifier

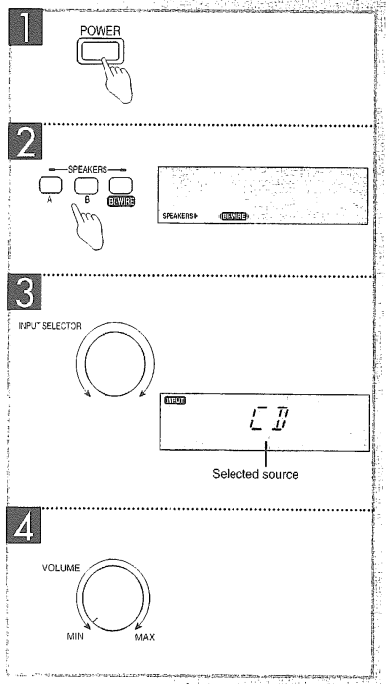


To connect a subwoofer which has a built-in amplifier



Basic Operations





Before operation, set VOLUME to the "MIN" position.

1 Press POWER.

2 Press A and/or B, or BI-WIRE to select the speaker system(s) to be used.

A, B and BI-WIRE refer to the speaker terminals at the rear of the unit.
When BI-WIRE is selected, the BI-AMP indicator will illuminate.

If the button is pressed once more, the indicator will switch off and no sound will be heard from the speakers.

Note

BI-WIRE and A, or BI-WIRE and B cannot both be used at the same time.
The BI-AMP indicator goes out if a Dolby Pro Logic mode is turned on or if the DVD 6CH INPUT mode is selected.

3 Turn INPUT SELECTOR to select and start the desired source.
(Refer to the appropriate operating instructions for details.)

The indicator which corresponds to the selected input source will illuminate.
The selected source and "INPUT" will be shown on the display.

VCR 1: To watch video tapes (VCR 1)
TV/VCR 2: To watch TV or video tapes (VCR 2)
VCR 3: To watch video tapes (VCR 3)
DVD: To watch DVD
TAPE: To listen to cassette tapes
CD: To listen to compact discs
TUNER: To listen to radio broadcasts
PHONO: To listen to phono discs

If a Dolby Pro Logic mode has been selected
After displaying the selected source, the display will then change to show the Dolby Pro Logic mode and "INPUT" will go out.
If the source chosen was TUNER then the display will change again to show the frequency.

Note

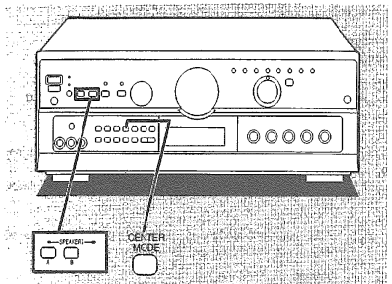
To watch a video (or DVD) or the TV, set the TV to either the TV mode or VIDEO mode.

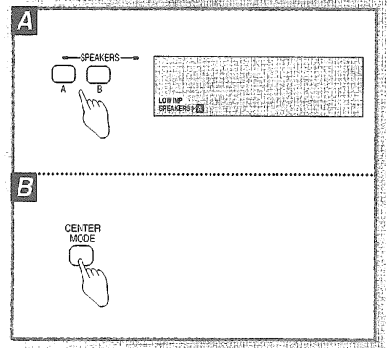
For your reference
If you are using VCR and you select TAPE, CD, TUNER, or PHONO, the picture will remain on the screen.

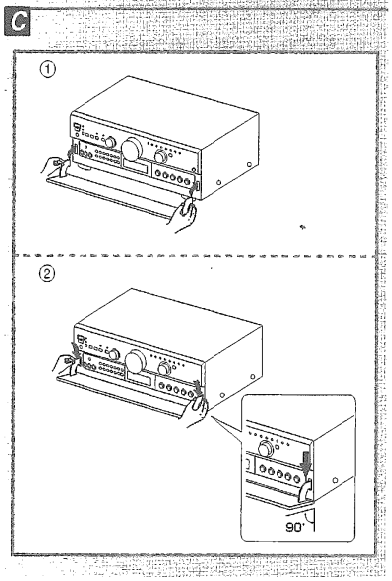
4 Adjust the volume level.

If using a subwoofer, adjust its volume with SUBWOOFER LEVEL.
If the subwoofer isn't being used, be sure to set SUBWOOFER LEVEL to MIN.

After listening is finished
Be sure to reduce the volume level, and switch the power to the standby condition by pressing POWER.







When using speakers under 6 Ω A

Press and hold A or B until LOW IMP lights up on the display.

If even one of the speakers being used has an impedance under 6 Ω, press and hold down either button A or button B for 4 seconds or more to set the impedance on the main unit to LOW.

(Press and hold down once again for 4 seconds or more to turn it off.)

Note that when the "LOW IMP" is illuminated, speakers A and B cannot both be used at the same time.

To change a speaker:
e.g. To use speaker B, press A (A goes out), and then press B to active speaker B.

To turn off the blue light B

Turning off the blue light sometimes improves video viewing in dark or dimly lit rooms.

Press and hold CENTER MODE for 4 seconds.

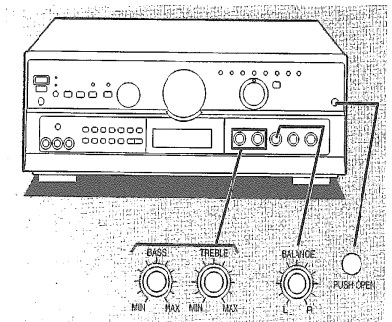
Press and hold it once again to turn the light back on.

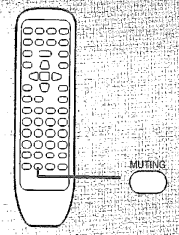
Note

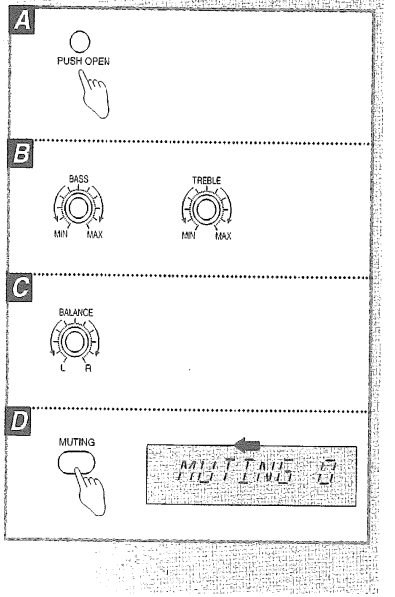
This light comes on when the power is turned on.

If the front cover comes off C

①Insert the cover as shown in the illustration.
②Ensure the cover is parallel to the unit, then press firmly down on the levers until they click into place.
③Check that the cover now moves correctly.
If it does not, remove it and repeat the above procedure.







To open the front cover A

Press PUSH OPEN.

To adjust the tone quality B

Turn BASS to adjust the low frequency sound.
Turn TREBLE to adjust the high frequency sound.

To adjust the sound balance C

Turn BALANCE to adjust the left/right sound balance.

To mute the sound level D

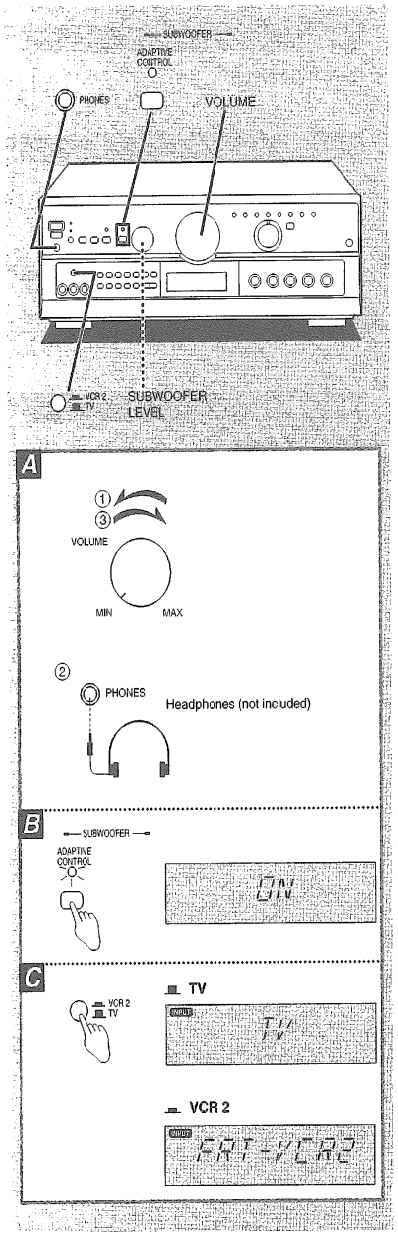
by remote control only

Press MUTING.
The message "MUTING ON NOW" runs repeatedly from right to left across the display as long as the muting function is on.

Press once again to return to the previous volume level.

Note

When the receiver is turned off, the muting operation will be automatically cancelled.



To listen through headphones A

① Reduce the volume level.
② Connect the headphones.
Plug type: 6.3 mm stereo
③ Adjust the volume level.

If you do not want sound from the speakers, press the SPEAKERS button(s) and check the speaker indicator(s) goes out.
If a subwoofer is connected to your system, silence it by turning the SUBWOOFER LEVEL control on the receiver to MIN.

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

To compensate when the volume is low B

This button balances low volume sounds by boosting bass sound pressure of the front speakers and subwoofer.

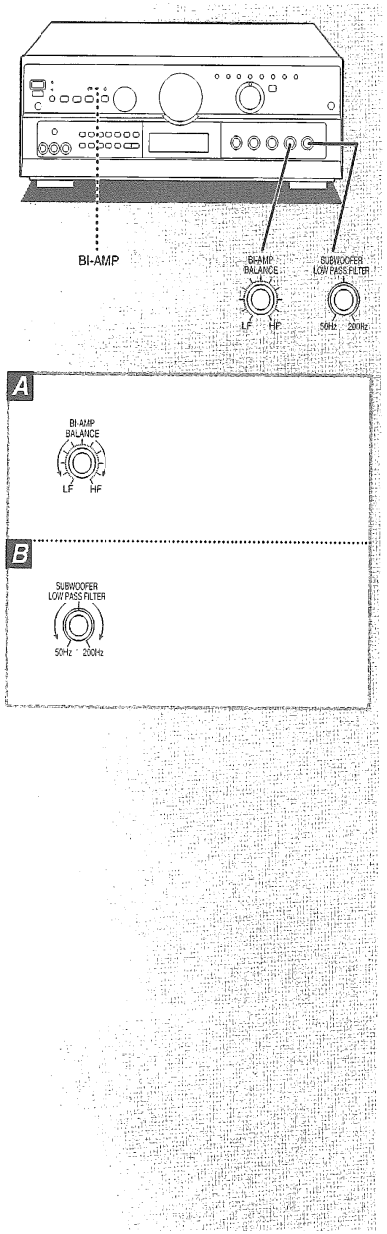
This function allows you to enjoy balanced sounds even if the volume is low.

Press SUBWOOFER ADAPTIVE CONTROL.
The message "ON" will appear on the display for 2 seconds.
SUBWOOFER ADAPTIVE CONTROL indicator will light up.
To return to the previous condition, press once again.
The message "OFF" will appear on the display for 2 seconds, then the indicator turns off.

When using the VCR 2 terminals (front side) C

This button can be used only when TV/VCR 2 is selected as the input source.
The TV/VCR 2 input select button works for both TV input and input from the source connected to the front side "VCR 2" terminals. (See page 8.)

Set " TV" or " VCR 2" position.



To adjust the high and low balance of the front speakers A

Only when BI-AMP is ON

Turn BI-AMP BALANCE to adjust the LF/HF balance.
This adjusts the high and low frequency output of bi-wired front speakers.
The setting depends on the speakers being used.
Adjust the balance to suit your room's acoustics and the features of the speakers.

When BI-AMP is ON
"BI-AMP" will illuminate.
BI-AMP makes use of the special characteristics of bi-wiring to reproduce high quality stereo sound.

Note

BI-AMP will turn off and the indicator will go out in the following cases:
- If any of the Dolby Pro Logic modes are turned on.
- If DVD 6CH INPUT is selected.

To adjust the output range of the subwoofer B

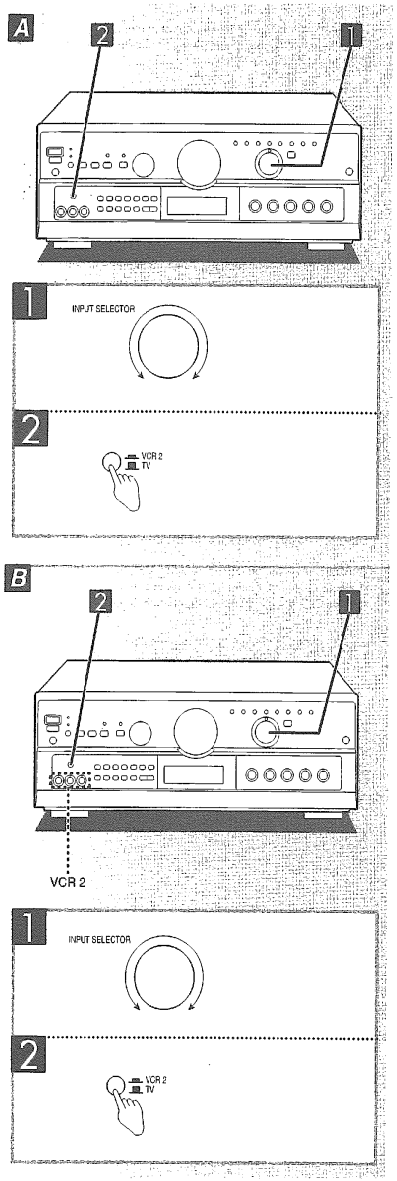
Only when a subwoofer is connected

Turn SUBWOOFER LOW PASS FILTER to select a suitable frequency.
The setting depends on the room's acoustics, the peculiarities of the subwoofer, and the interaction of the subwoofer and the front speakers.

Note

Adjustments can not be made when DVD 6CH INPUT has been selected.

Making a recording



Note

When you select DVD 6CH INPUT mode, only sound from the front left and right speakers is recorded.

To record all 6 channels

Set the playback mode on your DVD player or decoder to 2 channel (stereo) mode.

For details, see the instruction manual that came with the connected equipment.

Recording on a tape deck A

Before recording, prepare the tape deck for recording (recording level adjustment, etc.).
See the tape deck's operating instructions for details.

1. **Turn INPUT SELECTOR to select the source to be recorded.**
   Any source can be selected except TAPE.
2. (only if you select TV/VCR 2 in the above step)
   Set " TV" or " VCR 2" position.
3. **Begin recording on the tape deck.**
   Follow your tape deck's operating instructions.
4. **Begin the source to be recorded.**
   Follow your equipment's operating instructions.

Recording on a VCR B

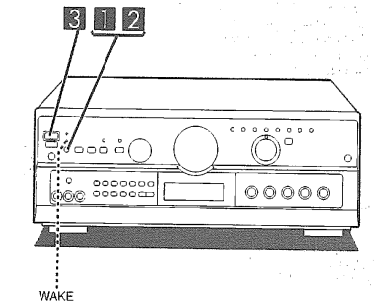
You can record only on VCR 1.
Before recording, prepare the VCR 1 (VCR) for recording (recording level adjustment, input selector setting, etc.).
See the VCR's operating instructions for details.

1. **Turn INPUT SELECTOR to select the source to be recorded.**
   Any source can be selected except VCR 1 (VCR) and TAPE.
   Note
   Recording from the tape deck is not possible.
2. (only if you select TV/VCR 2 in the above step)
   Set " TV" or " VCR 2" position.
3. **Begin recording on the VCR.**
   Follow your VCR's operating instructions.
4. **Begin the source to be recorded.**
   Follow your equipment's operating instructions.

For your reference

There are VCR 2 terminals at the front of this unit.
It is easier to carry out dubbing from a camcorder if it is connected to the front terminals.

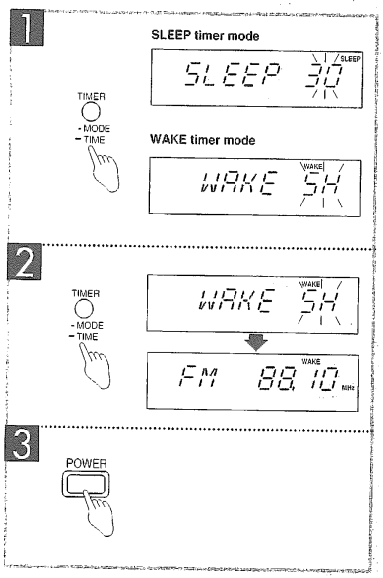
Timer function



There are two timer functions: the sleep timer and the wake timer.

- **Sleep timer:**
  The unit turns off after a set time.
  It can be set for 30, 60, or 90 minutes.
- **Wake timer:**
  The unit can be set to turn on a certain number of hours after it is turned off.
  It can be set for 5, 7, or 9 hours.

Setting the timers



1. (while listening to the radio)
   Press TIMER to select the desired timer mode.
   The timer mode changes as follows:
   SLEEP → WAKE → OFF
2. (within 5 seconds)
   Press TIMER and release when the time you require is displayed.
   The display changes as follows:
   - In sleep timer mode
     30 → 60 → 90 (minutes)
   - In wake timer mode
     5H → 7H → 9H (hours)

   The frequency is displayed again 5 seconds after the setting is completed.
3. Wake timer mode only
   Press POWER to turn off the power.
   The WAKE indicator lights up.

Checking the remaining time on the sleep timer and the time set for the wake timer

Press TIMER once.

Note

Do not press TIMER again before the remaining time indication goes out.

The setting may change if you do this.

Changing a setting

Repeat steps 1 and 2.

To cancel the timer

Press TIMER until "OFF" is displayed.
"SLEEP" or "WAKE" will go out.

Note

- The timers cannot be used together.
- The sleep timer turns off the receiver, and the wake timer turns on the receiver, but they do not turn off/on any externally connected components.

■ Operation Checks

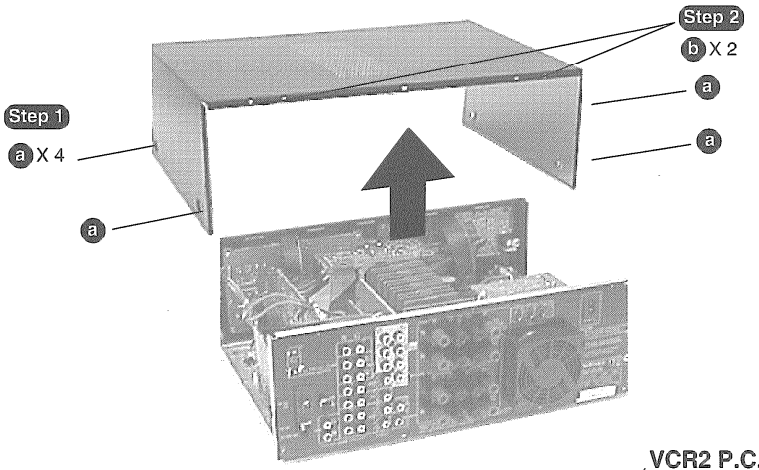
"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.**
3. **Select items from the following index when checks or replacement are required.**

• Contents

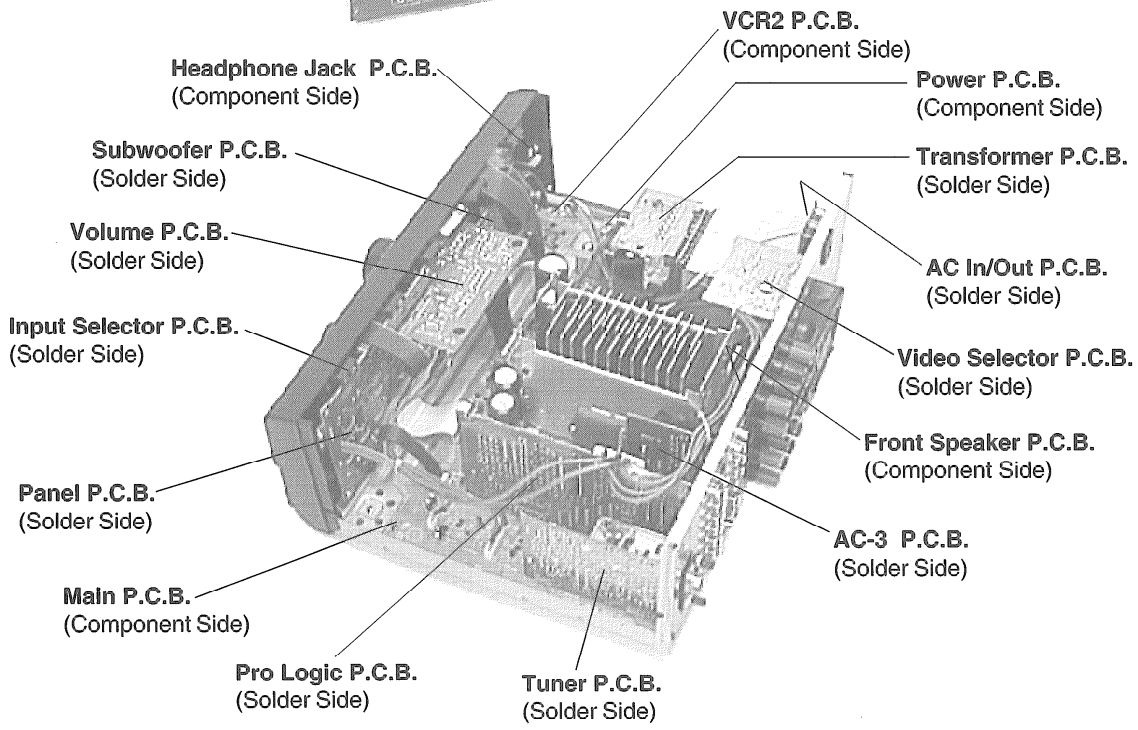
page
• Checking Procedure For Each Major P.C.B. ..... 11 ~ 13
• Main Component Replacement Procedures ..... 13 ~ 14

■ Checking Procedure For Each Major P.C.B.



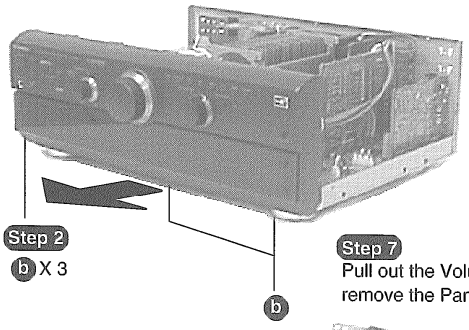
[SNE2129-1] (Black)

[XTBS3+8JFZ1] (Black)



To remove Front Panel

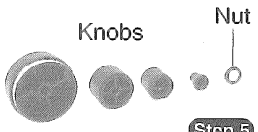
Step 1
Remove the top cabinet.

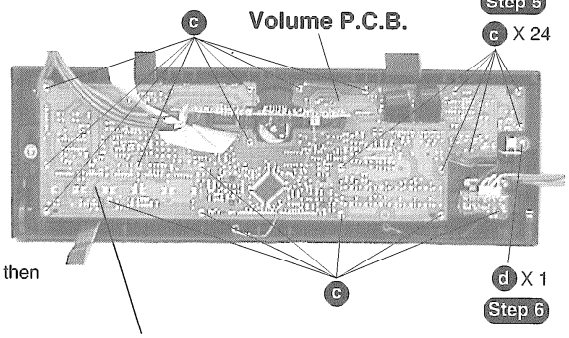


Step 2
b X 3

Step 3
Remove the Front Panel in the direction of arrow.

Step 4
Remove all Knobs and Nuts from Front Panel.

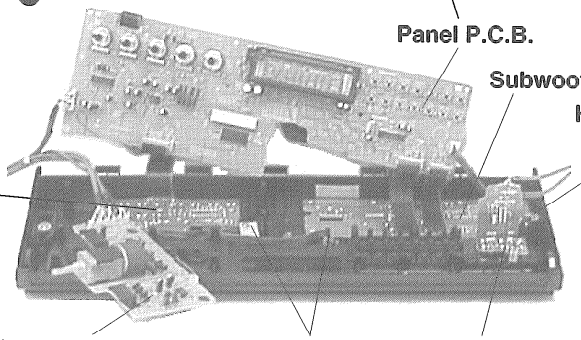




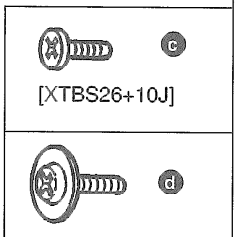
Step 5
c X 24

Step 6
d X 1

Step 7
Pull out the Volume P.C.B. then remove the Panel P.C.B.



Step 8
Remove Subwoofer P.C.B. and Input Selector P.C.B. to check on Blue LED P.C.B. (Right/Left).



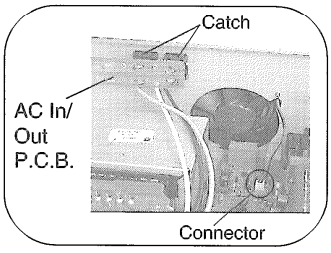
To remove Rear Panel

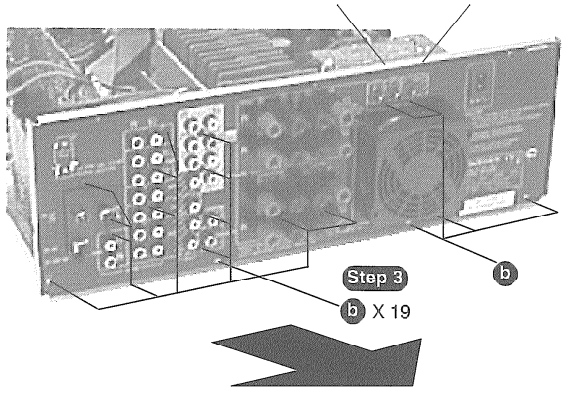
Step 1
Remove the top cabinet.

Step 2
Remove the front panel.

Step 3
b X 19

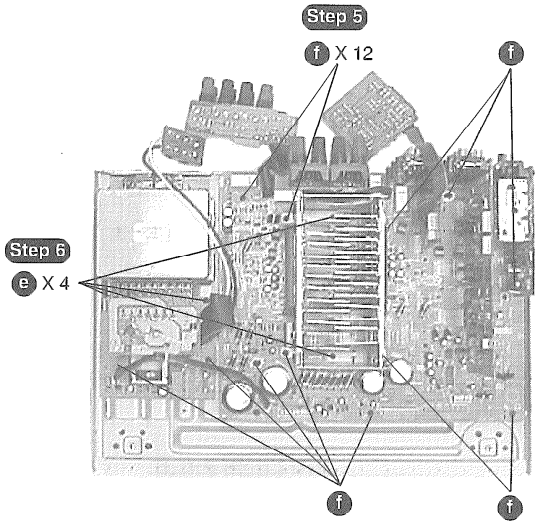
Step 4
Release the AC In/Out P.C.B. catches and the fan motor connector, then pull out the rear panel in the direction of arrow.

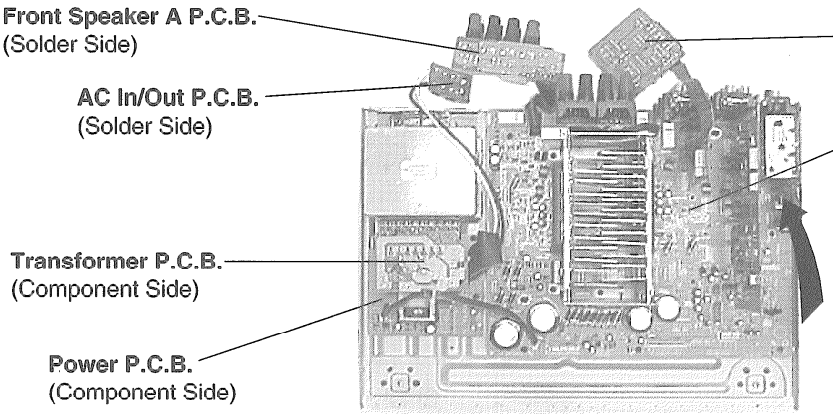




Step 5
f X 12

Step 6
e X 4





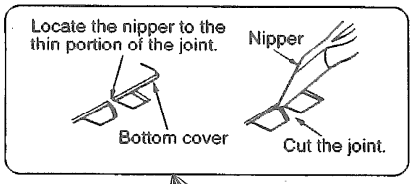
Step 7
Lift the Main P.C.B. in the direction of arrow to check the solder side.

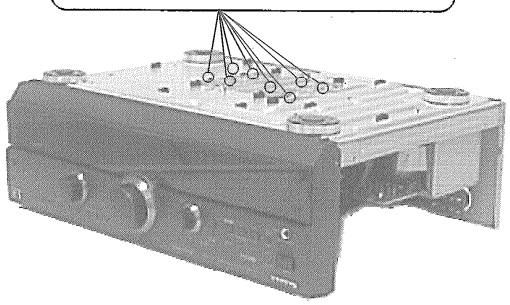
■ Main Component Replacement Procedures

1. Replacement of the Power IC and Regulator Transistor

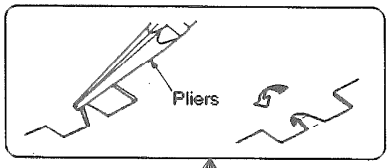
Step 1
Remove the top cabinet.

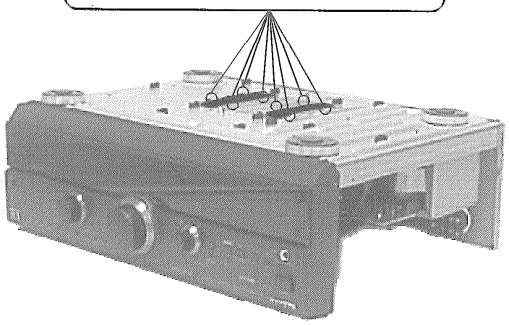
Step 2 Cut the joints as shown below. (8 joints)



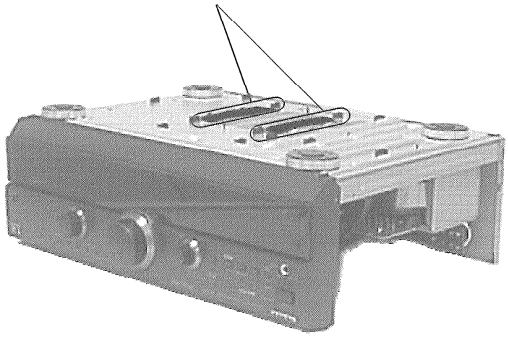


Step 3 Fold the joints. (8 joints)

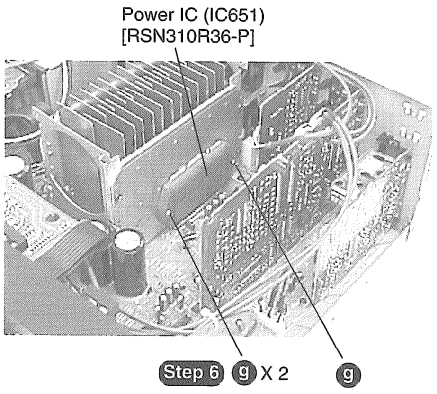


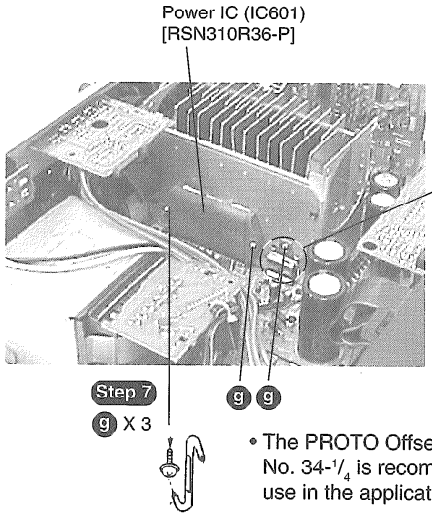


Step 4
Desolder the terminals of Power IC and Regulator Transistor.

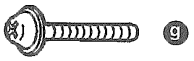


Step 5
Remove all screws (ⓑ) for the Tuner, AC-3 and Pro Logic P.C.B.'s at the Rear Panel and pull out these P.C.B.'s from the Main P.C.B.





• The PROTO Offset Screwdriver No. 34-1/4 is recommended for use in the application above.

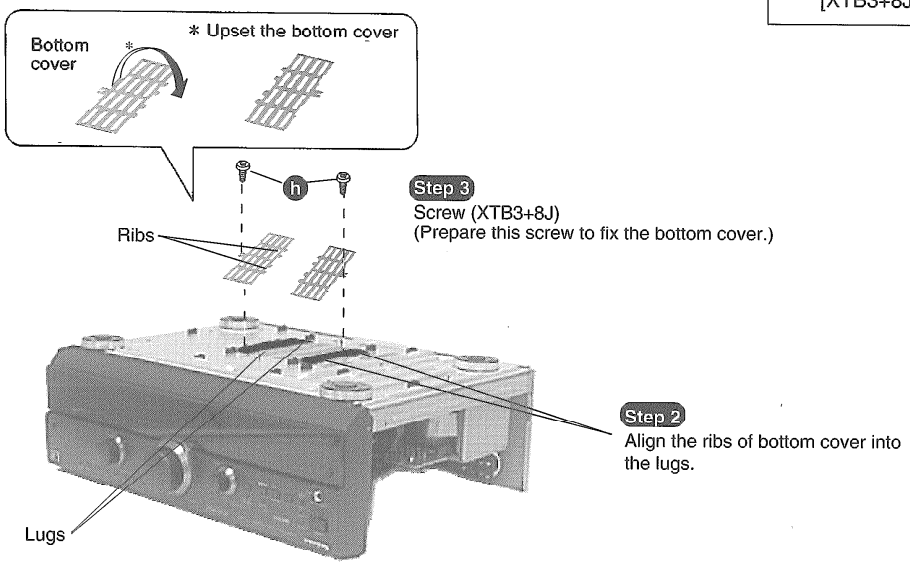


[XTW3+15T]

Installation of the bottom cover after replacement

[XTB3+8J] (Black)

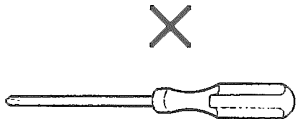
Step 1



CAUTION

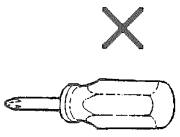
1. After replacing the power IC or regulator transistor, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC or regulator transistor (Radiation of power IC).
2. Tighten enough the screws (ⓖ) after replacing the power IC and regulator transistor. Otherwise, the heat radiation works little.
3. When installing or removing the power IC or transistor holder, be sure to use an offset screwdriver.

- A long straight screwdriver cannot be used for removing or mounting the screws since its long grip interferes with the neighbouring P.C.B. (See Fig.1)
- A short straight screwdriver may be used for removal, but cannot be used for mounting because the limited space in the unit will not allow sufficient tightening torque.(See Fig.2)



A long straight screwdriver

Fig.1



A short straight screwdriver

Fig.2

- Insufficient tightening will cause poor heat dissipation from the power IC and regulator transistor and,in the worst case, may lead to their thermal breakdown.

■ Terminal Functions Of ICs

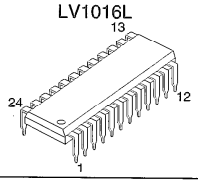
• IC901 (M38B57M6101F) System Microprocessor

Pin No.	Mark	I/O	Function
1~2	KEY2~KEY1	I	Key Input 1 ~ 2
3	THERM/OVLD1	I	Thermal/Over load input 1
4	KEY4	I	Key Input 4
5	THERM/OVLD2	I	Thermal/Over load input 2
6	FM_ST	I	Stereo signal detect terminal
7	WAKE_LED	O	Wake up timer LED
8	RDS_ST	I	Control of RDS IC (ST) stereo signal
9	REMOTE	I	Remote control terminal
10	RESET	–	Reset detect terminal
11	RDS_CK	I	Control of RDS IC (CK) clock signal
12	RDS_DT	I	Control of RDS IC (DT) data signal
13	GND	–	GND terminal
14	OCS	–	Crystal oscillator terminal (4 MHz)
15	OCS	–	Crystal oscillator terminal (4 MHz)
16	VDD (+5V)	–	Power supply terminal +5V
17	LED_IC_CK	O	LED driver IC (CK) clock signal
18	LED_IC_DT	O	LED driver IC (DT) data signal
19	SFC/PTY_ENCD1	I	SFC mode encoder input 1
20	SFC/PTY_ENCD2	I	SFC mode encoder input 2
21	SEL_ENCD1	I	Selector encoder for input 1
22	HOLD	I	Blackout detection terminal
23	SEL_ENCD2	I	Selector encoder for input 2
24	FRT_VCR2	I	VCR2 control input
25	RELAY	–	Relay control output
26	ABS	O	ABS control output
27	6ch_SW_ST	O	6 ch sw control output (ST)
28	Vee (-22V)	–	Power supply for FL driver
29	S/C_SP	O	Surround/Center speaker control output

Pin No.	Mark	I/O	Function
30	SP_B	O	Speaker B control output
31	SP_A	O	Speaker A control output
32	AF_MUTE	O	Muting control output
33~48	SEG16~SEG1	O	FL segment signal output
49~58	DEG1~DEG10	O	FL digit signal output
59	INIT_IN	I	Diode input initial settings
60	VOL_DOWN	O	Volume control output (Down)
61	VOL_UP	O	Volume control output (Up)
62	REC_MUTE	O	REC Mute control
63	IF_DATA	I	Serial data signal
64	LIMITTER	O	Power limitter control output
65	TNR_CE	O	Tuner control (CE) chip enable signal
66	SEL/TNR_CK	O	Selector/Tuner (CK) clock signal
67	SEL/TNR_DT	O	Selector/Tuner (DT) data signal
68	SEL_ST	O	Selector control terminal
69	MMD_CTRL	O	MMD control terminal
70	SURR_CK	O	Surround control (CK) clock signal
71	SURR_DT	O	Surround control (DT) data signal
72	SURR_CE	O	Surround control (CE) chip enable signal
73	AVSS	–	GND for A-D converter
74	VREF	–	Reference voltage for A-D converter
75	SD	I	SD signal detect input
76	SUR_ENCD1	I	Encoder of surround mode selector input1
77	HELP_LED	O	Help LED control output
78	SUR_ENCD2	I	Encoder of surround mode selector input2
79	VIDEO_A	O	Video selector control output A
80	VIDEO_B	O	Video selector control output B

■ Terminal Guide of ICs, Transistors and Diodes

LA1832A
LC7218
LV1016L



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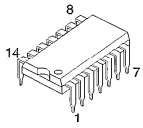
NJM2060D
NJM2296D



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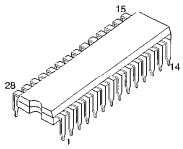
TC9162AN



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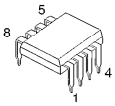

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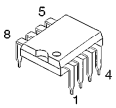

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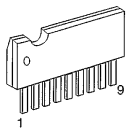
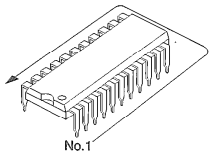


LA2786L (42Pin)



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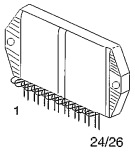

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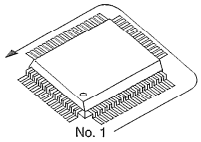
(80 Pin)



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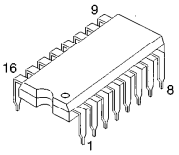

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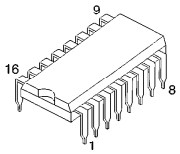

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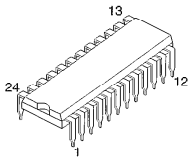

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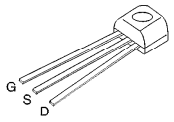

2SS933SSTA
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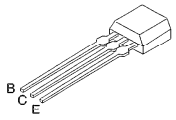
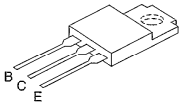


2SC1740SQSTA
RVTDTA114EST
RVTDTA143XST
RVTDTC114YST
RVTDTC143XST

2SB1548PQAU
2SD2374PQAU



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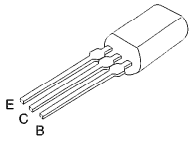
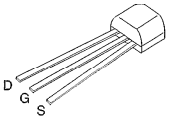


2SK381CTA
2SJ40CTA



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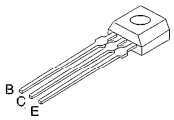

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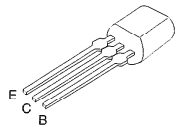
2SC2787LTA
2SD1915FTA
2SC3311ARTA

2SB621AQSTA



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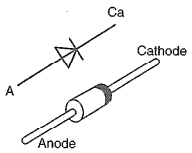
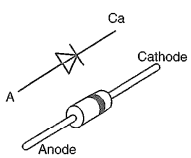
RK306LFU1





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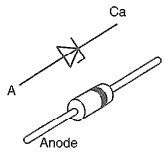
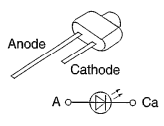
1SR35200TB
MA700ATA
1SS291TA
MA167ATA
MA165TA

MTZJ10CTA
MTZJ15CTA



MTZJ30DTA
MTZJ3R0BTA
MTZJ3R9ATA
MTZJ4R7BTA
MTZJ5R1BTA
MTZJ5R6BTA
MTZJ6R2BTA
MTZJ6R8BTA
MTZJ7R5CTA
MTZJ8R2CTA

SLR325MCT31
SLR325VCT31



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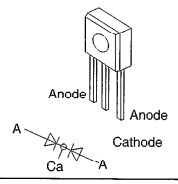

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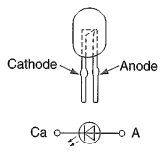


■ Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology)

Note :

• S301	:	TV/DSS and VCR2 mode switch	• S982	:	Loud switch
• S946	:	Power switch	• S983	:	Off/On switch
• S951	:	Band select switch	• S984	:	DPL mode switch
• S952	:	Tuning decrease switch	• S985	:	Center mode select switch
• S953	:	Tuning increase switch	• S986	:	Delay switch
• S955	:	Memory switch	• S988	:	Bi-wire switch
• S956	:	Preset switch			
• S958	:	Timer (Help) switch	• VR501	:	Motor volume control
• S970	:	Search switch	• VR502	:	Balance control
• S971	:	EON switch	• VR503	:	Subwoofer control
• S972	:	PTY + switch	• VR511	:	Bass control
• S973	:	PTY – switch	• VR512	:	Treble control
• S974	:	DISP. MODE switch	• VR513	:	Bi-amp balance control
• S976	:	6CH switch	• VR514	:	Subwoofer low-pass control
• S980	:	Speakers A switch	• VR901	:	Balance control
• S981	:	Speakers B switch			

• **Signal line**

: +B line
: - B line
: FM/AM signal line
: AM signal line
: AM OSC signal line
: Main signal line
: FM signal line
: FM OSC signal line
: REC signal line

• The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

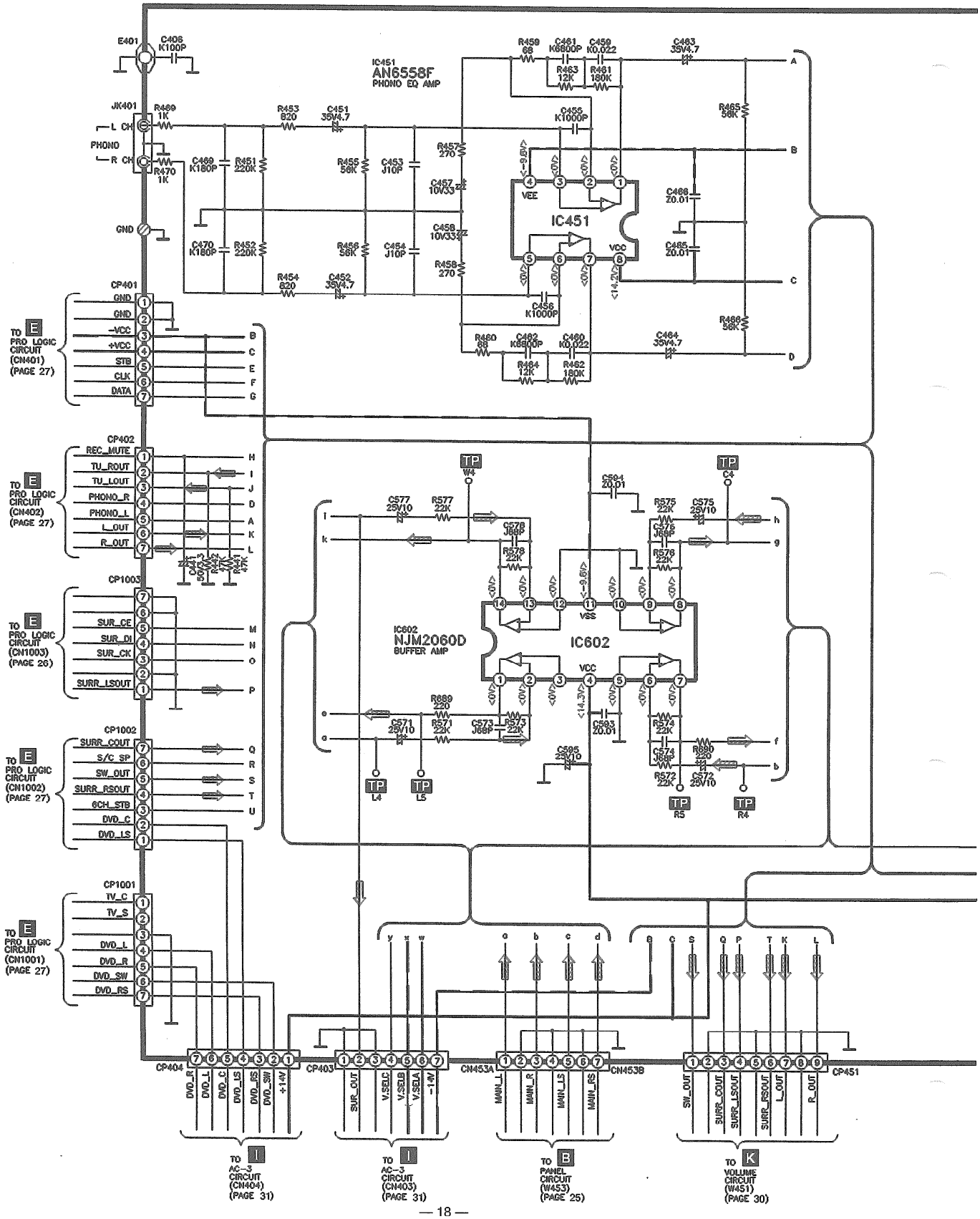
No mark : Playback < > : FM ( ) : AM

• **Importance safety notice:**
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

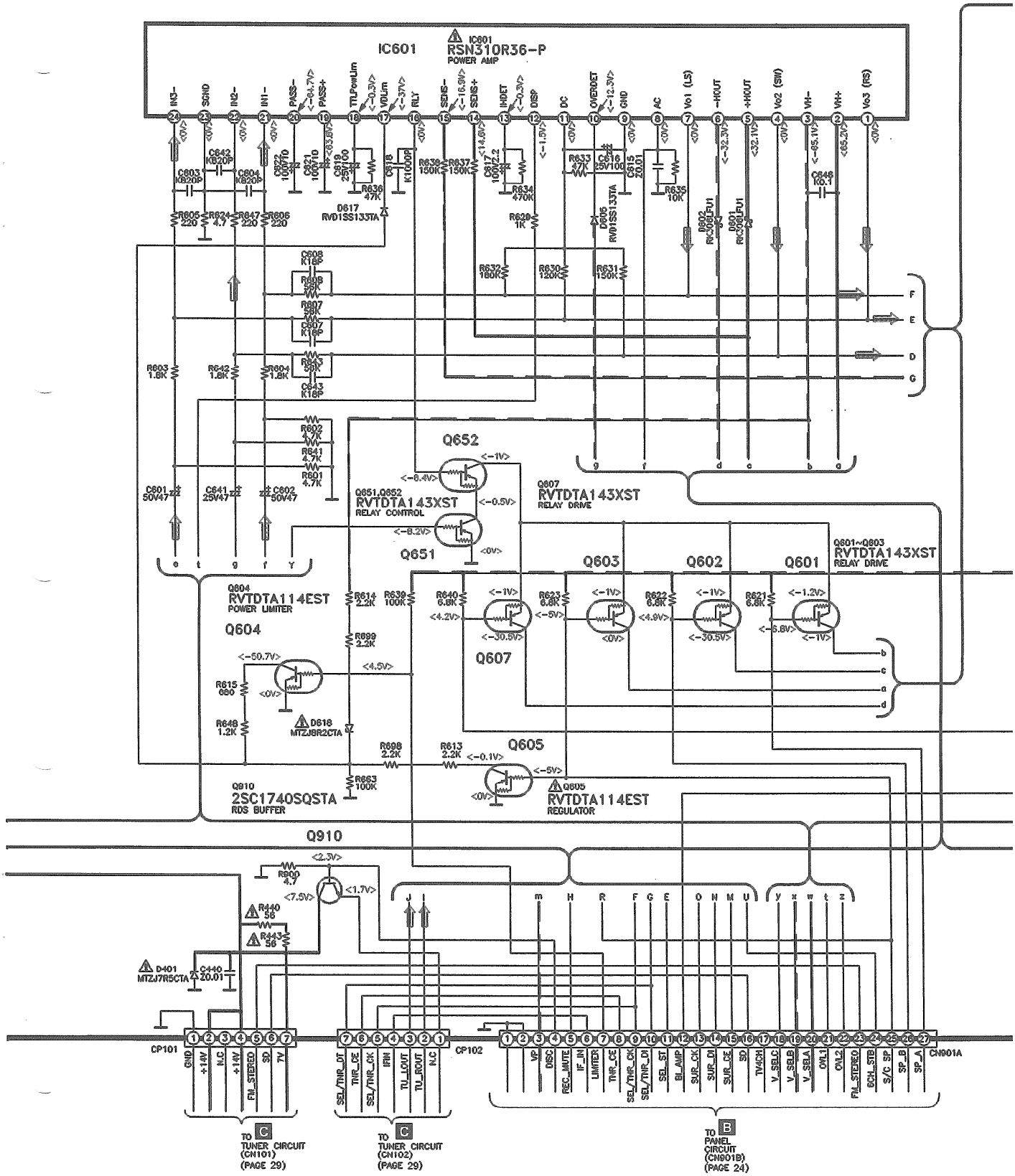
Caution !
IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
• Cover the parts boxes made of plastics with aluminium foil.
• Ground the soldering iron.
• Do not touch the pins of IC, LSI or VLSI with fingers directly.
• Put a conductive mat on the work table.

A MAIN CIRCUIT
(P.C.Board on page 32)

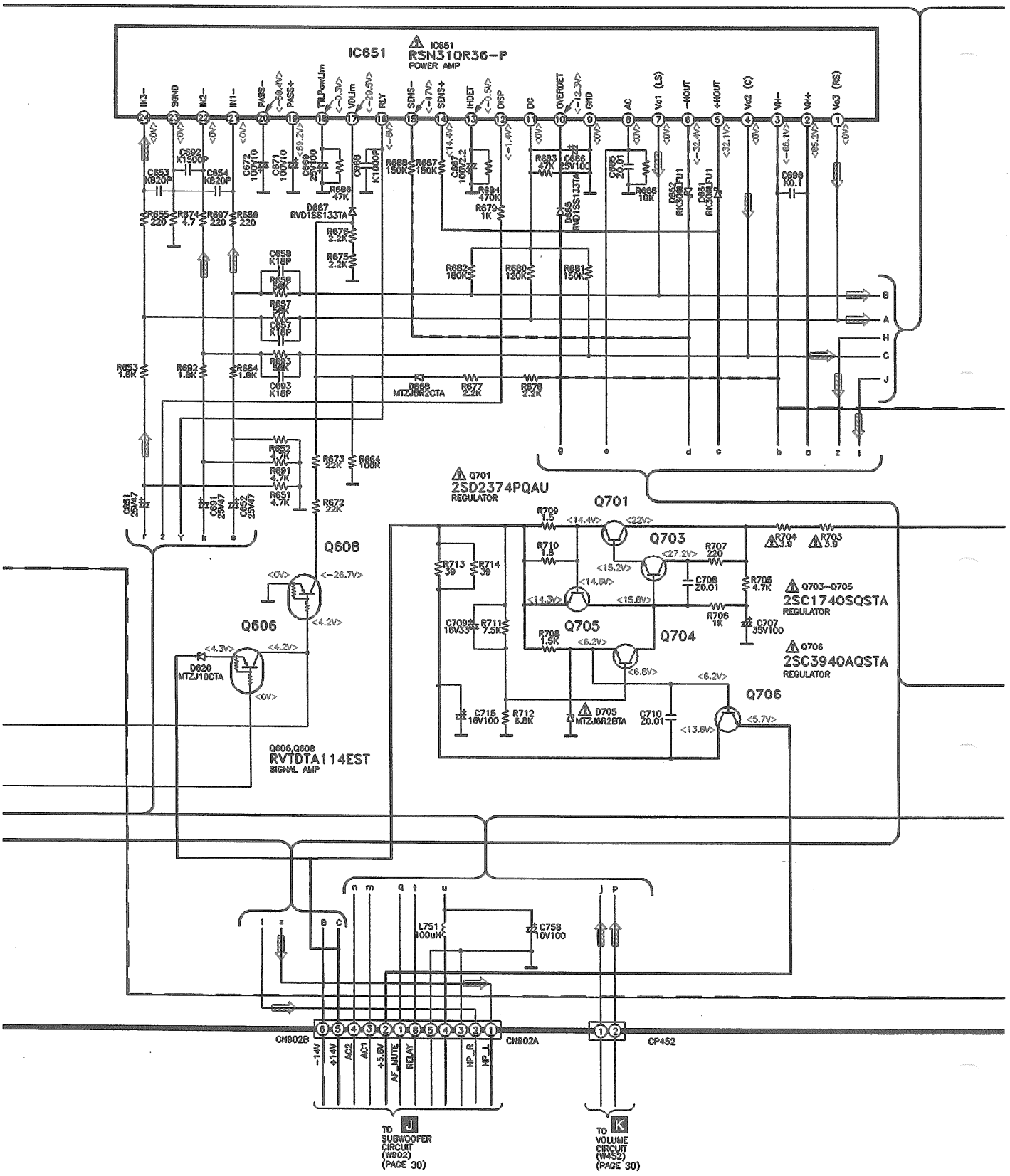
——— : +B Line
— — : −B Line
⇒ : Main Signal Line
⇒ : FM/AM Signal Line



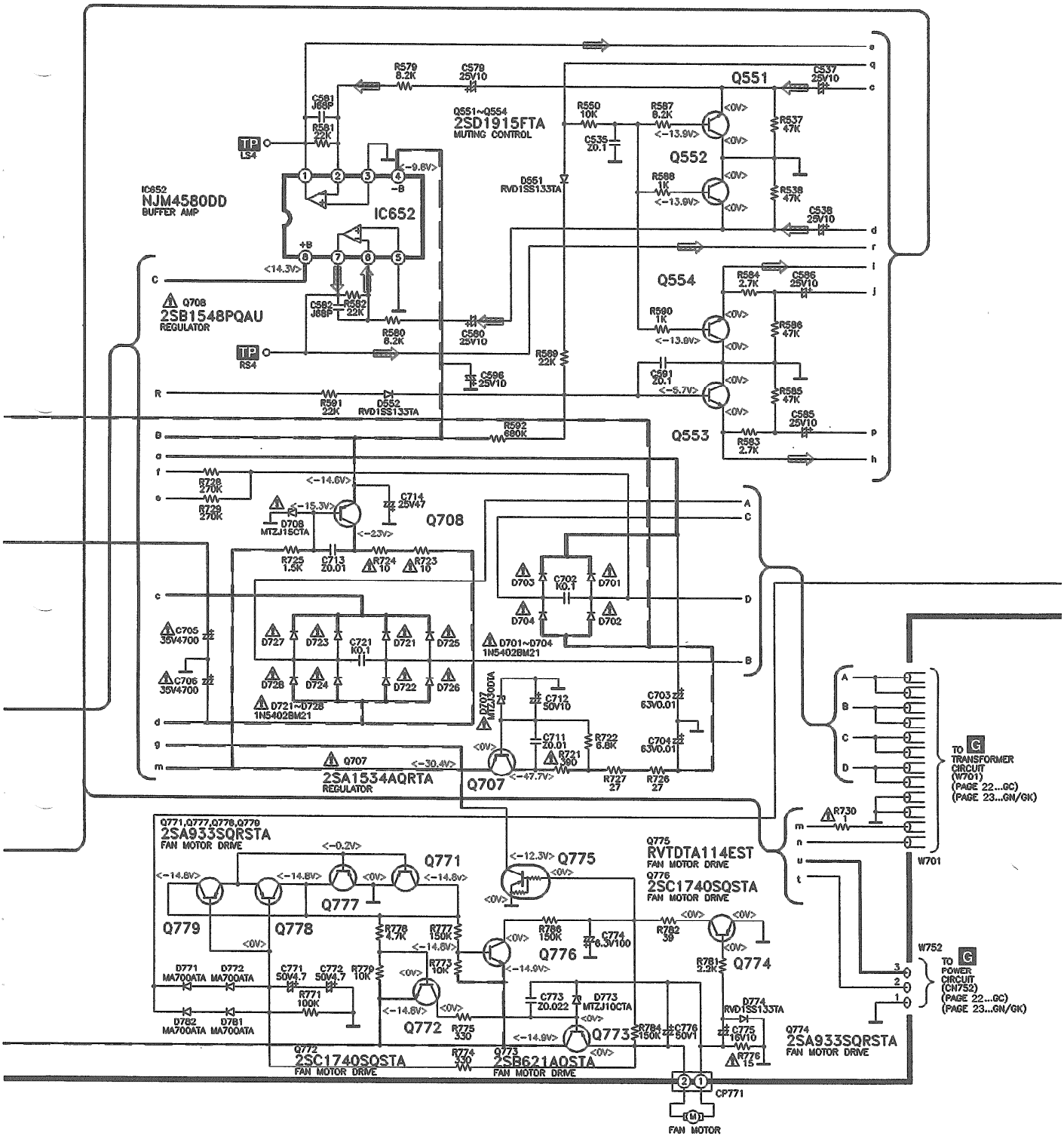
: +B Line
: −B Line
: Main Signal Line
: FM/AM Signal Line



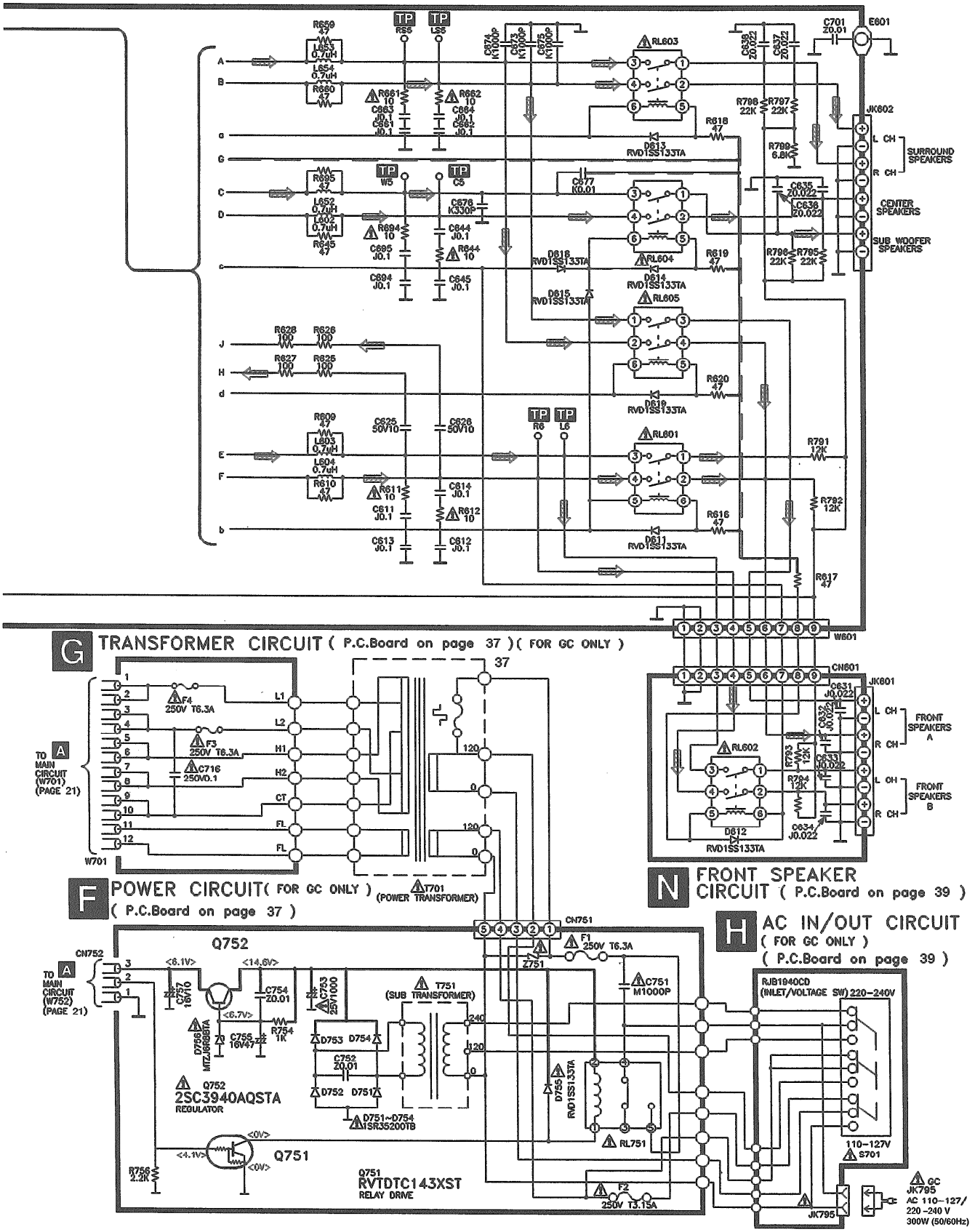
——— : +B Line　　— — : −B Line　　⇒ : Main Signal Line

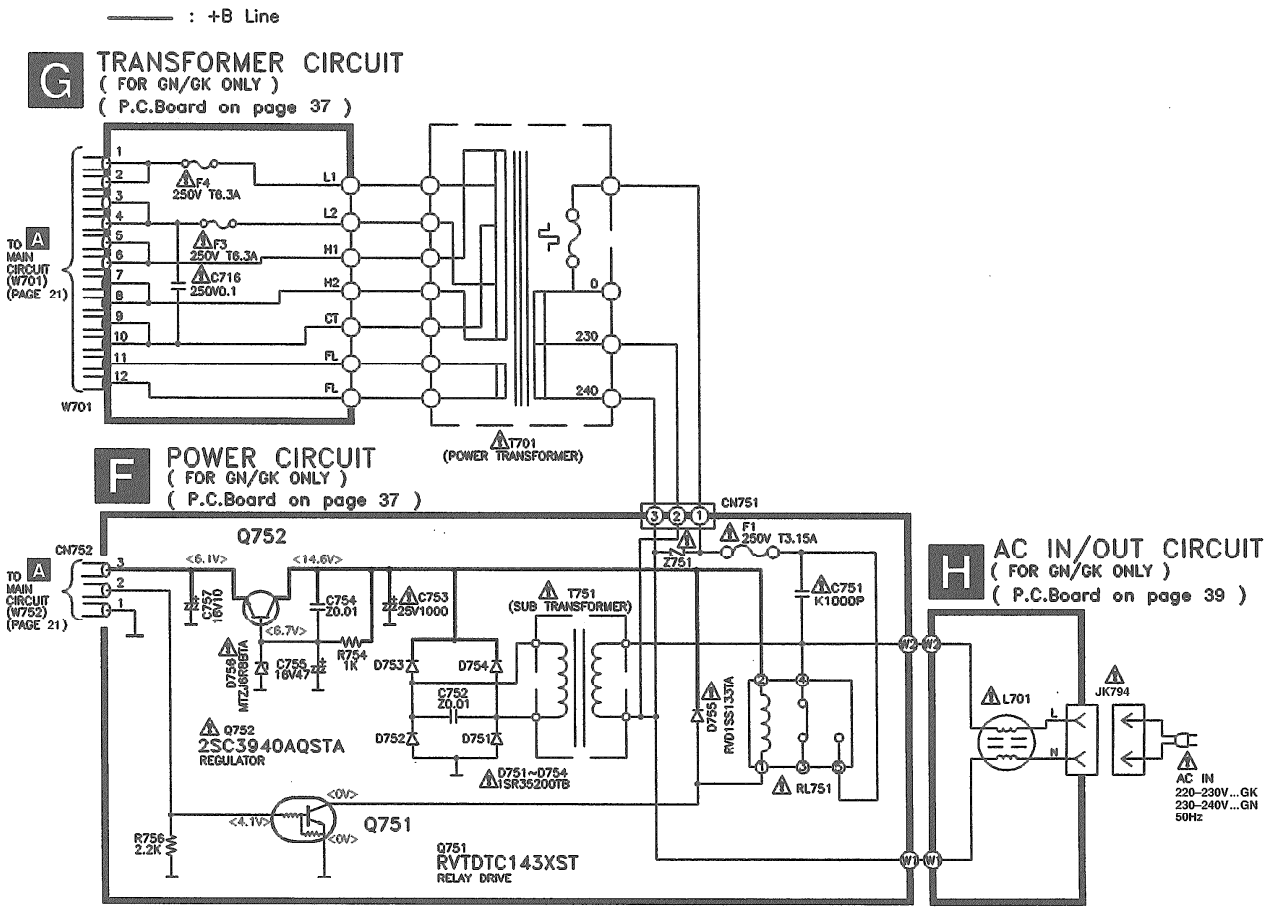


——— : +B Line　　— — : −B Line　　⇨ : Main Signal Line



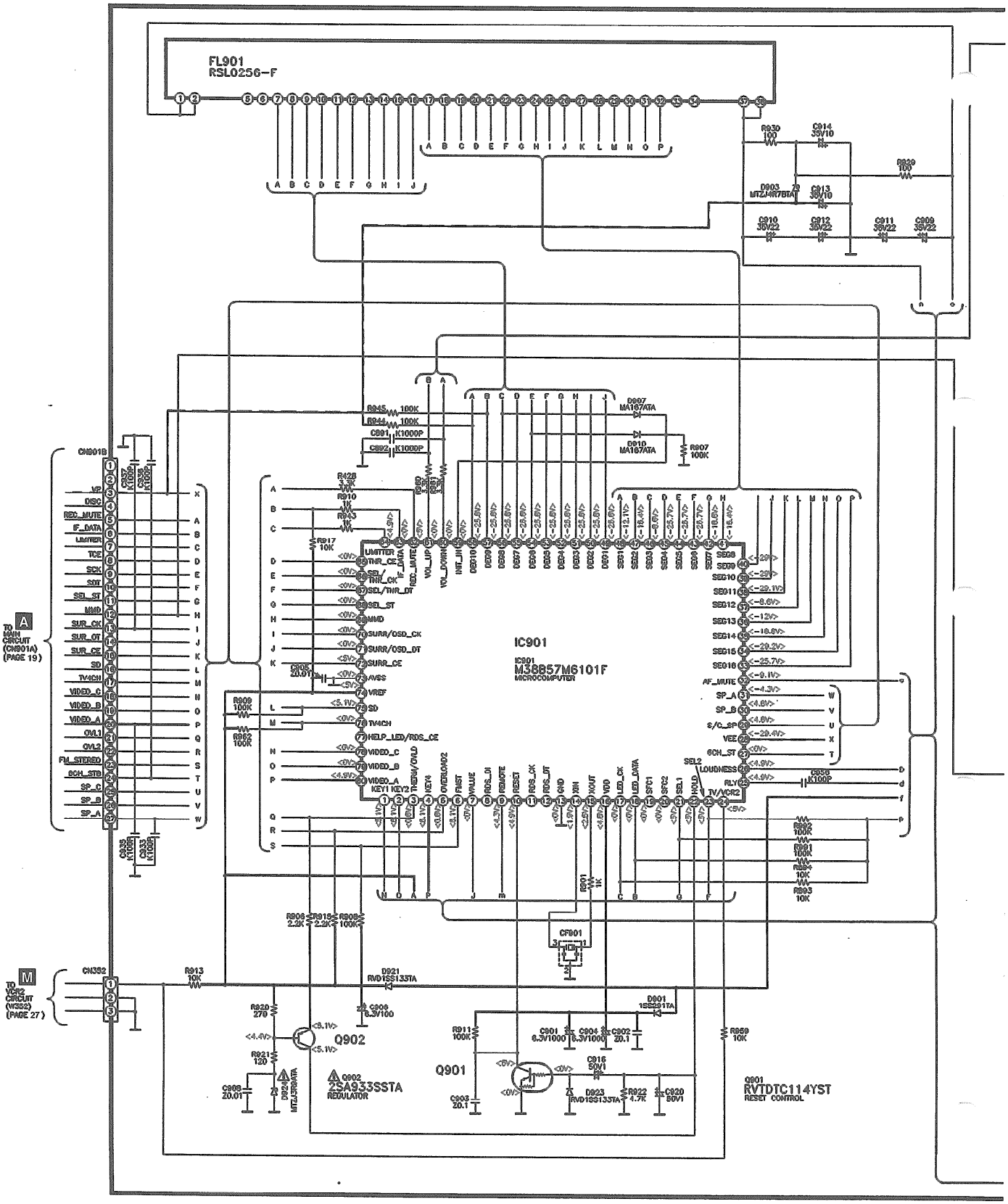
: +B Line : −B Line : Main Signal Line



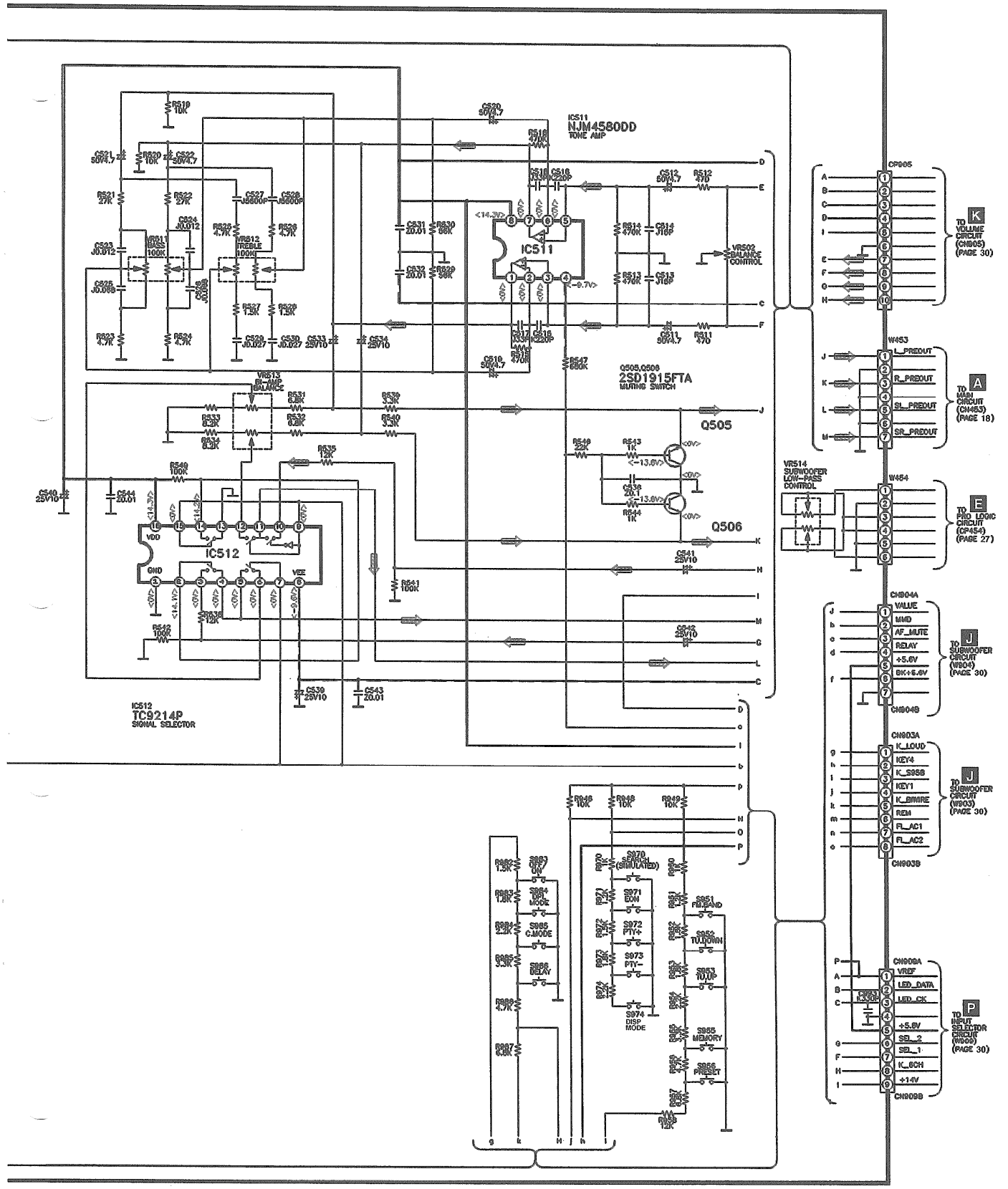

: +B Line
G TRANSFORMER CIRCUIT
(FOR GN/GK ONLY)
(P.C.Board on page 37)
TO A MAIN CIRCUIT (W701) (PAGE 21)
W701
F4 250V T6.3A
F3 250V T6.3A
C716 250V0.1
L1
L2
H1
H2
CT
FL
FL
0
230
240
T701 (POWER TRANSFORMER)
F POWER CIRCUIT
(FOR GN/GK ONLY)
(P.C.Board on page 37)
CN751
F1 250V T3.15A
Z751
CN752
TO A MAIN CIRCUIT (W752) (PAGE 21)
Q752
<6.1V>
<14.6V>
<6.7V>
C757 16V10
C754 Z0.01
C753 25V1000
T751 (SUB TRANSFORMER)
C751 K1000P
D758 MTZJ6R8STA
C755 16V47
R754 1K
D753
D754
C752 Z0.01
D752
D751
Q752 2SC3940AQSTA REGULATOR
D751~D754 1SR35200TB
D755 RVD1SS133TA
RL751
R756 2.2K
<0V>
<4.1V>
<0V>
Q751
Q751 RVTDTC143XST RELAY DRIVE
H AC IN/OUT CIRCUIT
(FOR GN/GK ONLY)
(P.C.Board on page 39)
L701
JK794
L
N
AC IN 220-230V...GK 230-240V...GN 50Hz

B PANEL CIRCUIT (P.C.BOARD ON PAGE 34)

——— : +B Line　　– – – – : –B Line

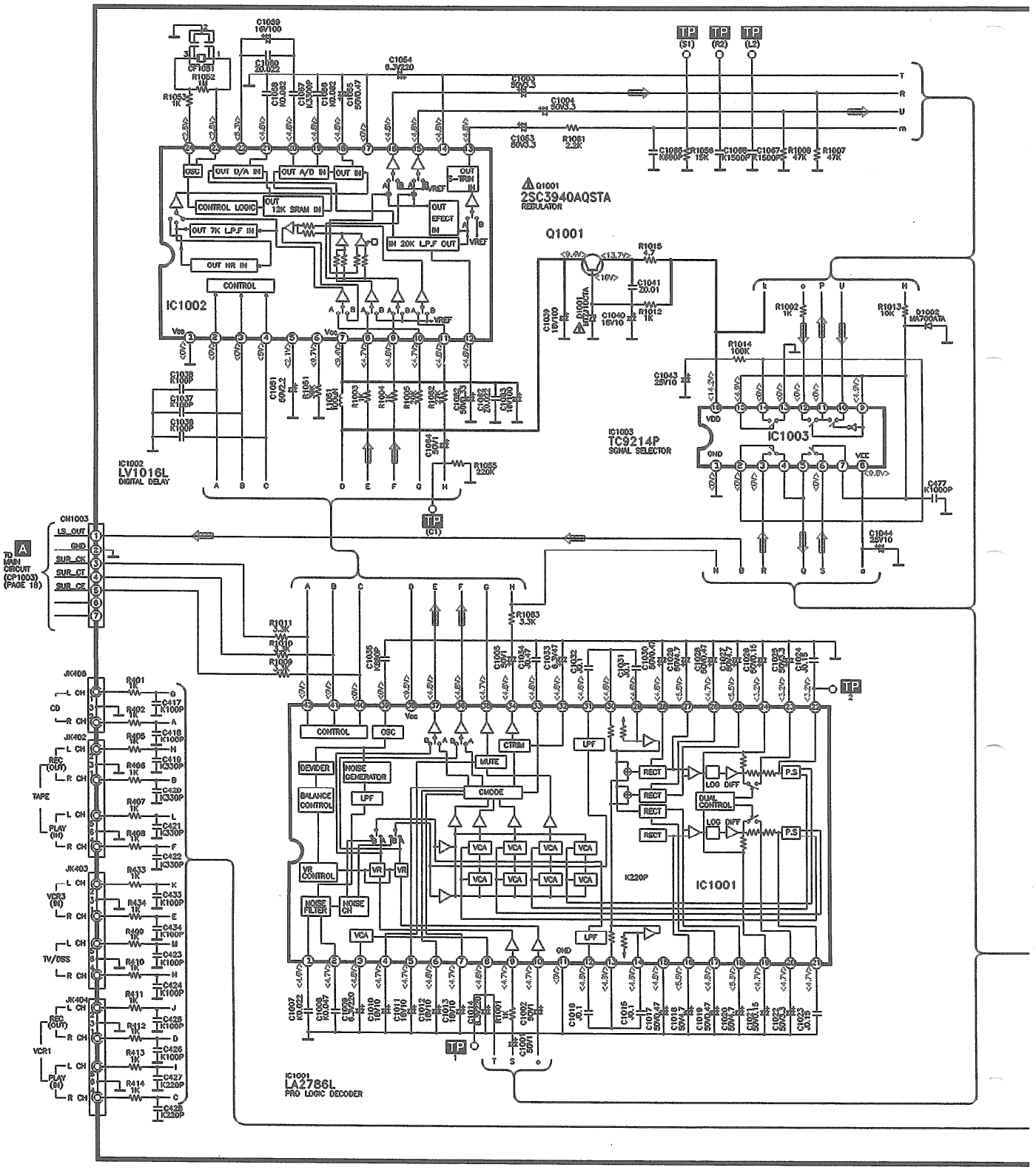


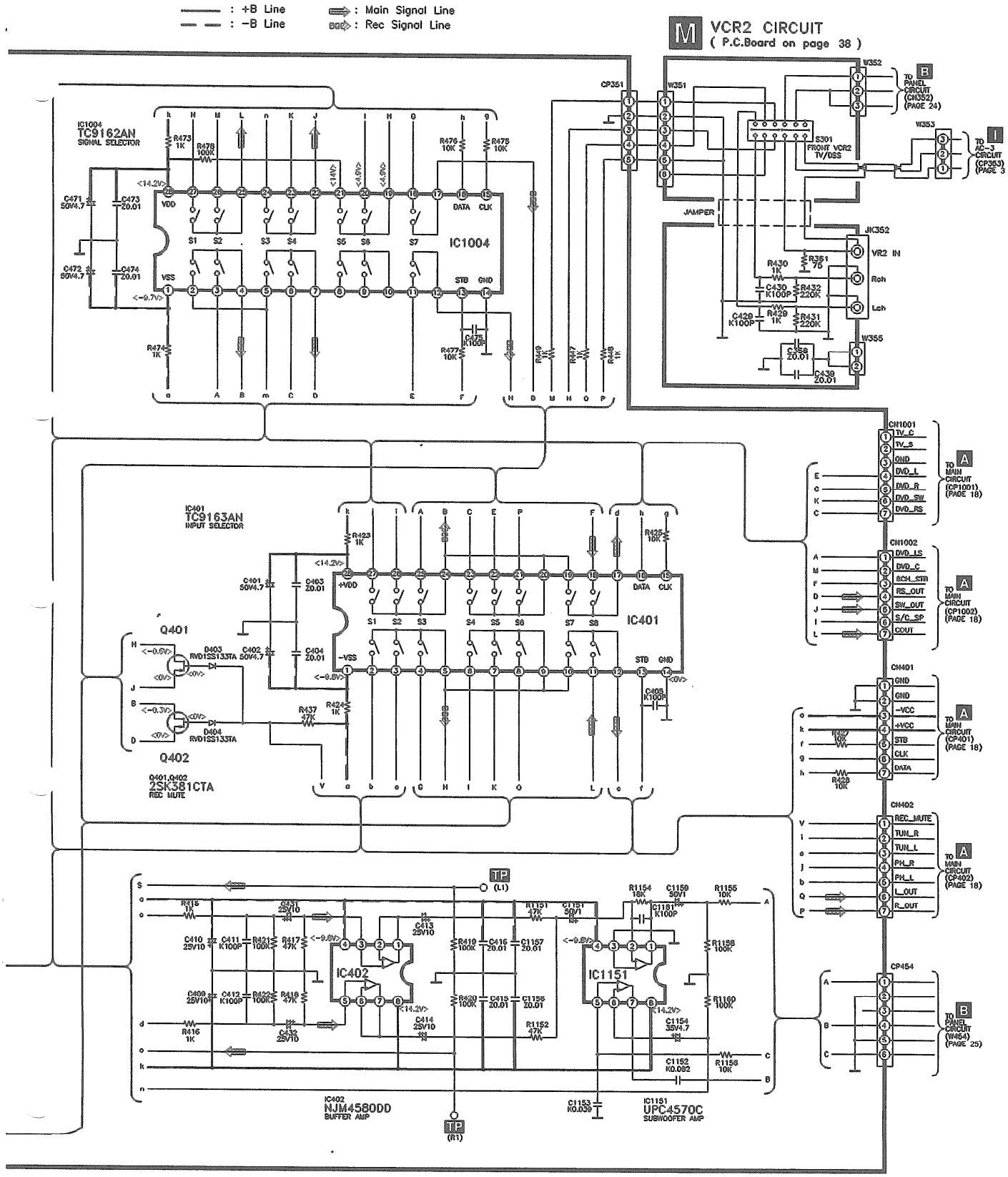
——— : +B Line　　– – – – : –B Line　　⇒ : Main Signal Line



E PRO–LOGIC CIRCUIT (P.C.Board on page 36)

——— : +B Line — — : –B Line ⇒ : Main Signal Line

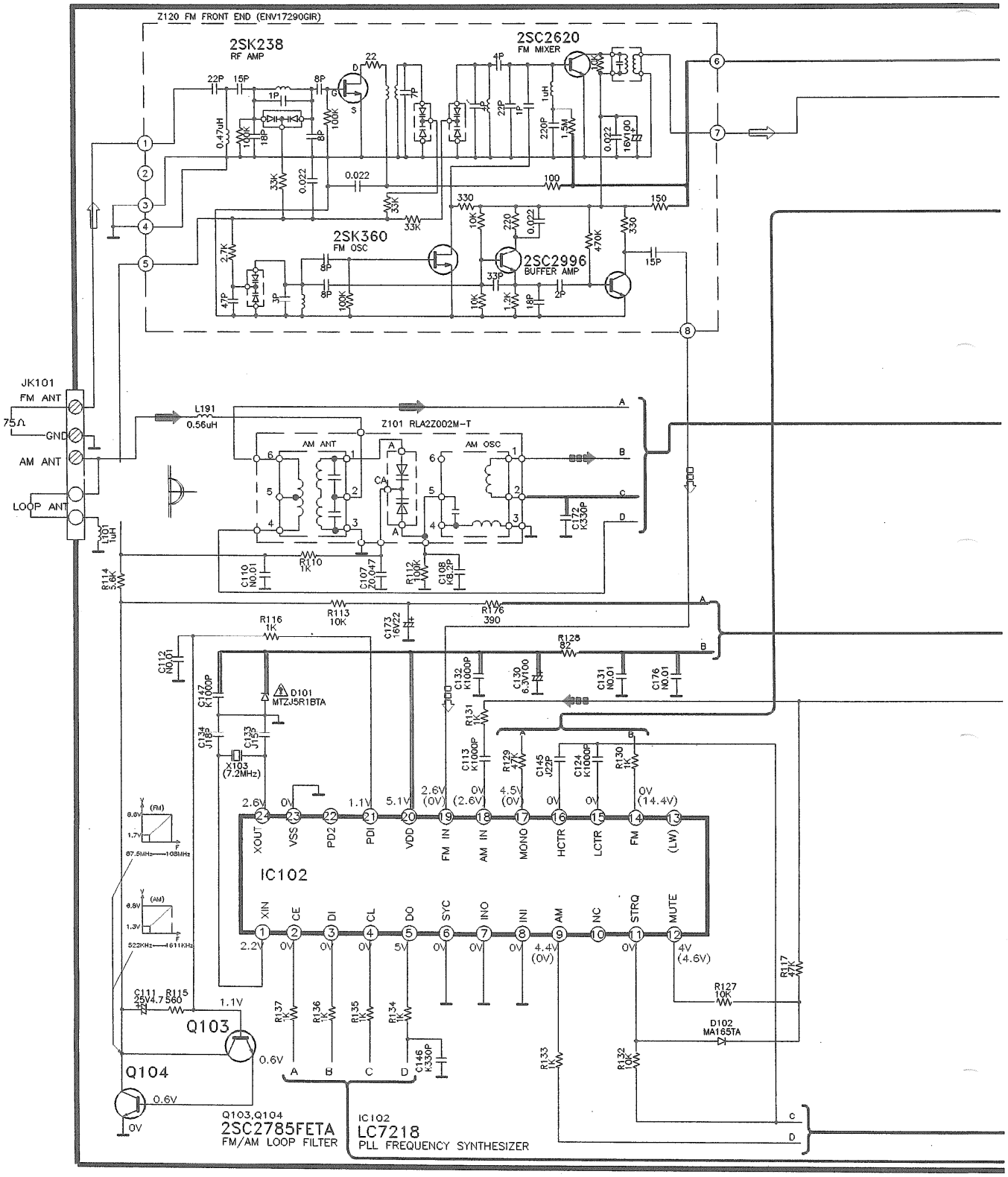


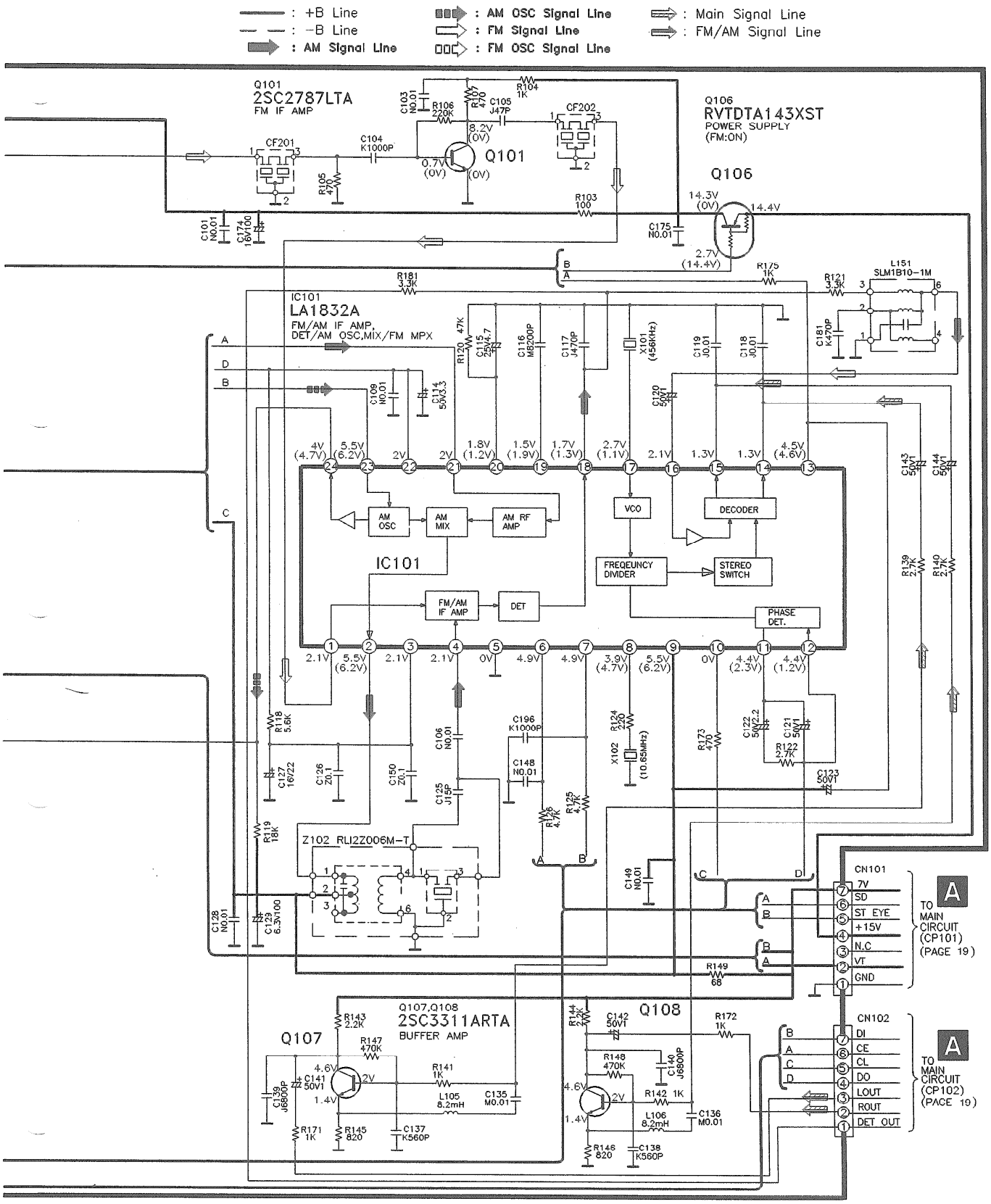

: +B Line
: -B Line
: Main Signal Line
: Rec Signal Line
M VCR2 CIRCUIT
(P.C.Board on page 38)
IC1004
TC9162AN
SIGNAL SELECTOR
IC401
TC9163AN
INPUT SELECTOR
Q401
Q402
2SK381CTA
REC MUTE
IC402
NJM4580DD
BUFFER AMP
IC1151
UPC4570C
SUBWOOFER AMP
JAMPER
S301
FRONT VCR2
TV/DSS
JK352
VR2 IN
CN1001
CN1002
CN401
CN402
CP454
TO MAIN CIRCUIT (CP1001) (PAGE 18)
TO MAIN CIRCUIT (CP1002) (PAGE 18)
TO MAIN CIRCUIT (CP401) (PAGE 18)
TO MAIN CIRCUIT (CP402) (PAGE 18)
TO PANEL CIRCUIT (CN352) (PAGE 24)
TO PANEL CIRCUIT (W454) (PAGE 25)
TO AC-3 CIRCUIT (CP353) (PAGE 3)

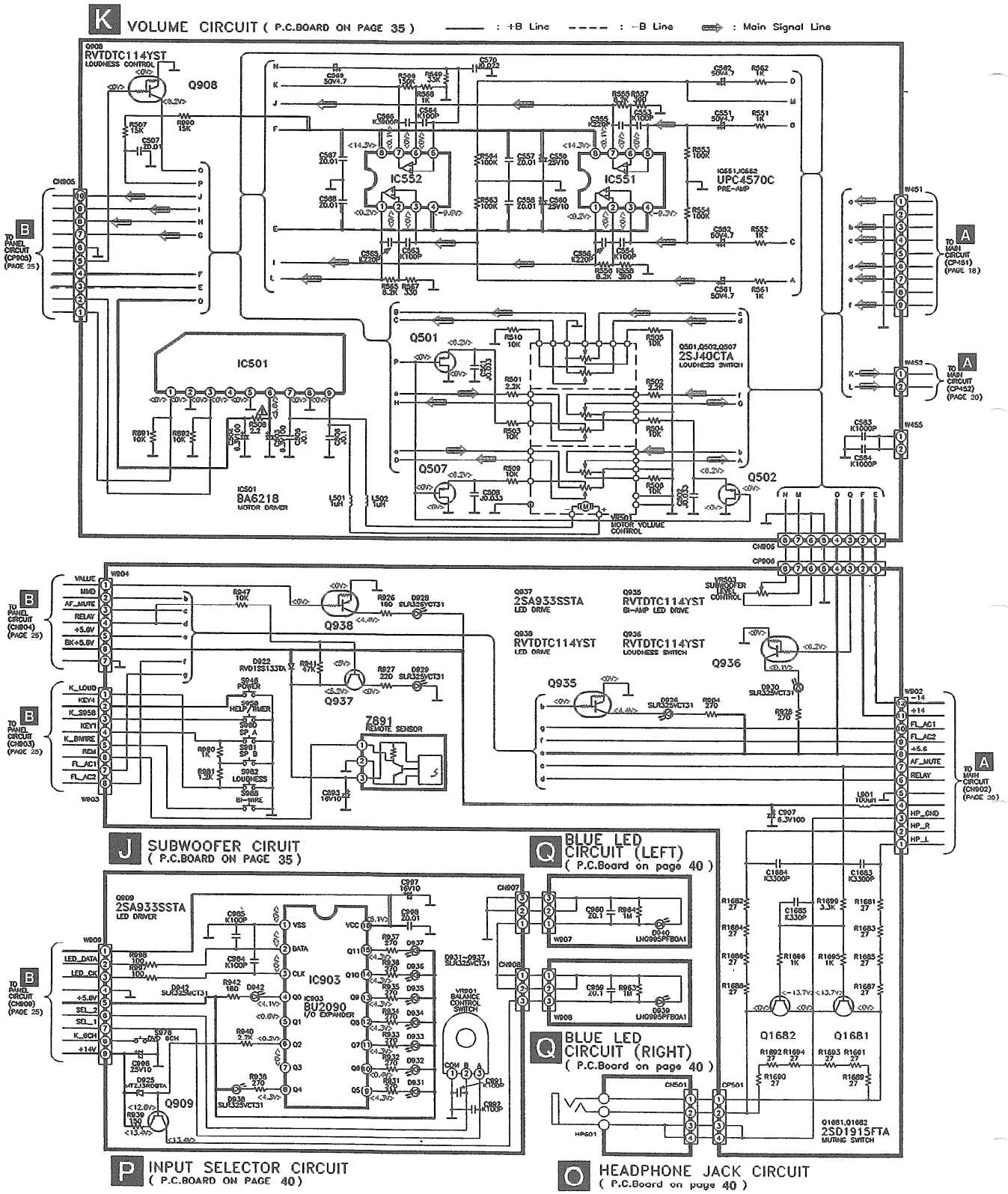
C TUNER CIRCUIT

(P.C.Board on page 41)

: +B Line
: −B Line
: AM Signal Line
: AM OSC Signal Line
: FM Signal Line
: FM OSC Signal Line
: FM/AM Signal Line

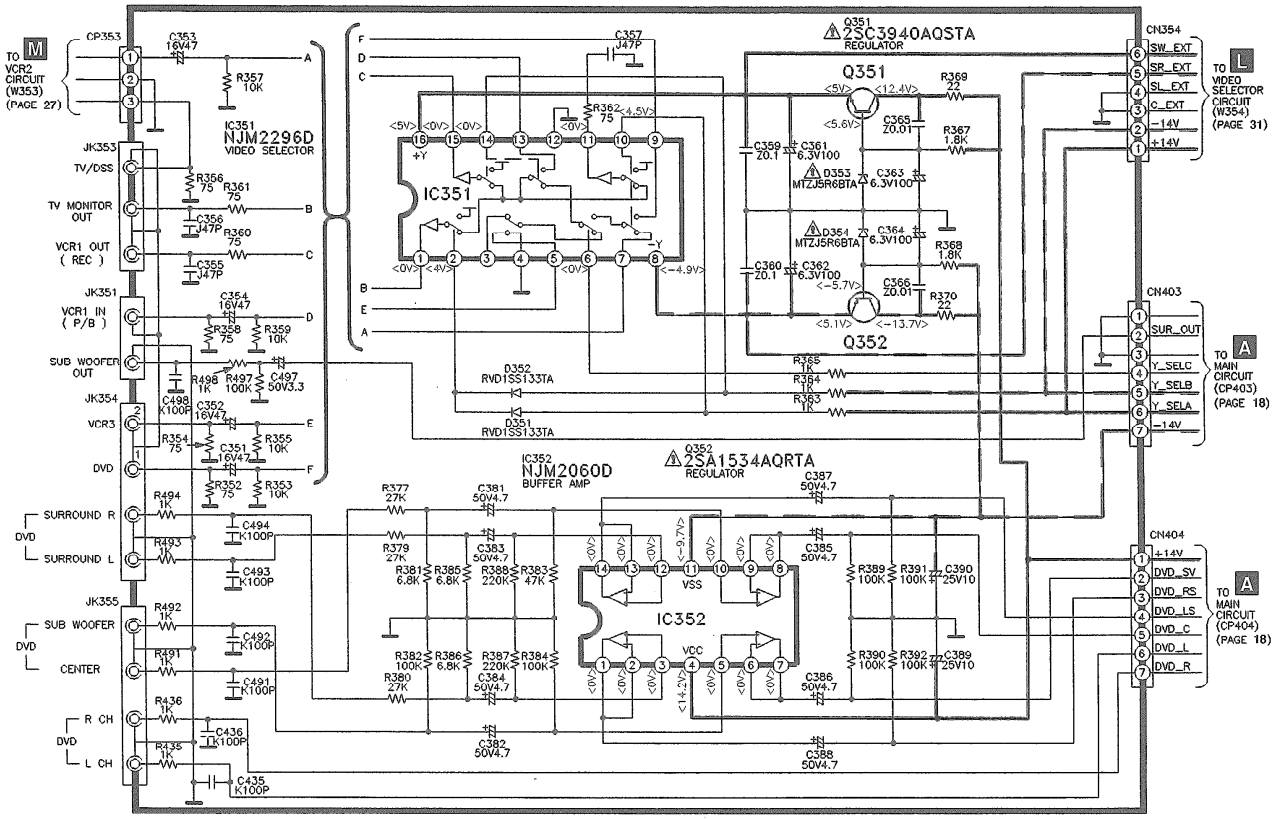



: +B Line
: −B Line
: AM Signal Line
: AM OSC Signal Line
: FM Signal Line
: FM OSC Signal Line
: Main Signal Line
: FM/AM Signal Line
Q101
2SC2787LTA
FM IF AMP
Q106
RVTDTA143XST
POWER SUPPLY
(FM:ON)
IC101
LA1832A
FM/AM IF AMP,
DET/AM OSC,MIX/FM MPX
AM OSC
AM MIX
AM RF AMP
VCO
DECODER
FREQEUNCY DIVIDER
STEREO SWITCH
FM/AM IF AMP
DET
PHASE DET.
Z102 RLI2Z006M-T
Q107,Q108
2SC3311ARTA
BUFFER AMP
CN101
7V
SD
ST EYE
+15V
N.C
VT
GND
TO MAIN CIRCUIT (CP101) (PAGE 19)
CN102
DI
CE
CL
DO
LOUT
ROUT
DET OUT
TO MAIN CIRCUIT (CP102) (PACE 19)

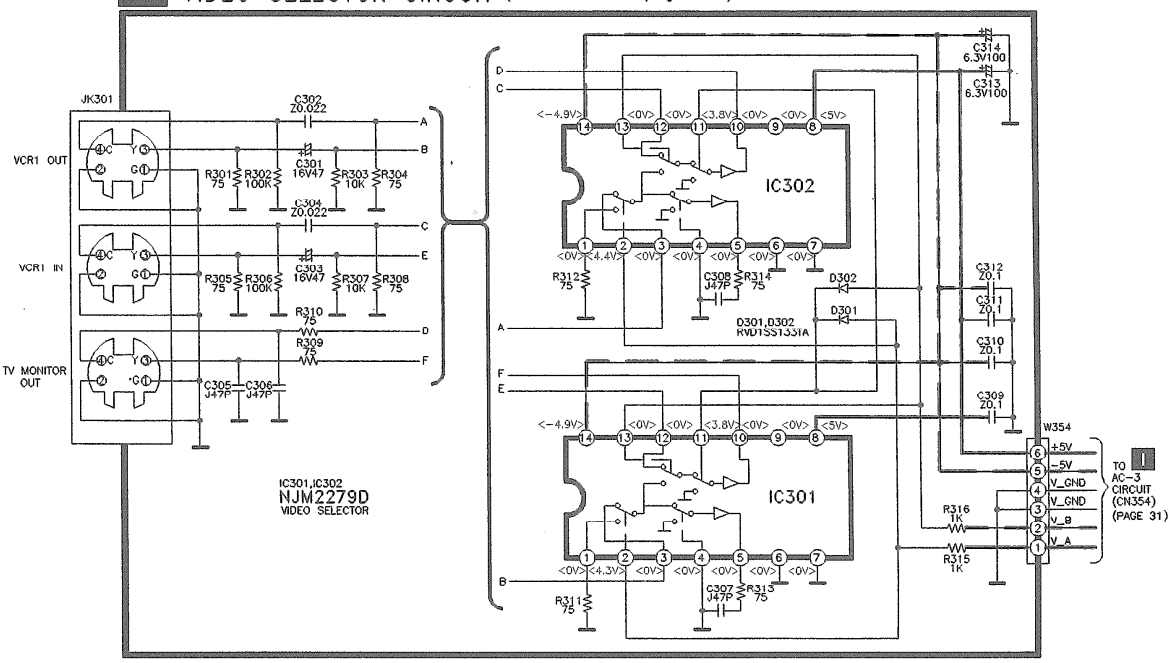

K VOLUME CIRCUIT (P.C.BOARD ON PAGE 35)
: +B Line
: -B Line
: Main Signal Line
Q908
RVTDTC114YST
LOUDNESS CONTROL
IC552
IC551
IC551/IC552
UPC4570C
PRE-AMP
IC501
BA6218
MOTOR DRIVER
Q501
Q507
Q502
2SJ40CTA
LOUDNESS SWITCH
VR501
MOTOR VOLUME CONTROL
TO PANEL CIRCUIT (CP805) (PAGE 25)
TO MAIN CIRCUIT (CP451) (PAGE 18)
TO MAIN CIRCUIT (CP452) (PAGE 20)
Q938
Q937
Q936
Q935
2SA933SSTA
LED DRIVE
RVTDTC114YST
BI-AMP LED DRIVE
LOUDNESS SWITCH
VR503
SUBWOOFER LEVEL CONTROL
Z891
REMOTE SENSOR
TO PANEL CIRCUIT (CN804) (PAGE 25)
TO PANEL CIRCUIT (CN803) (PAGE 25)
TO MAIN CIRCUIT (CN902) (PAGE 20)
J SUBWOOFER CIRUIT
(P.C.BOARD ON PAGE 35)
Q BLUE LED CIRCUIT (LEFT)
(P.C.Board on page 40)
Q BLUE LED CIRCUIT (RIGHT)
(P.C.Board on page 40)
IC903
BU2090
I/O EXPANDER
Q909
2SA933SSTA
LED DRIVER
Q1682
Q1681
2SD1915FTA
MUTING SWITCH
P INPUT SELECTOR CIRCUIT
(P.C.BOARD ON PAGE 40)
O HEADPHONE JACK CIRCUIT
(P.C.Board on page 40)

I AC-3 CIRCUIT (P.C.Board on page 39)

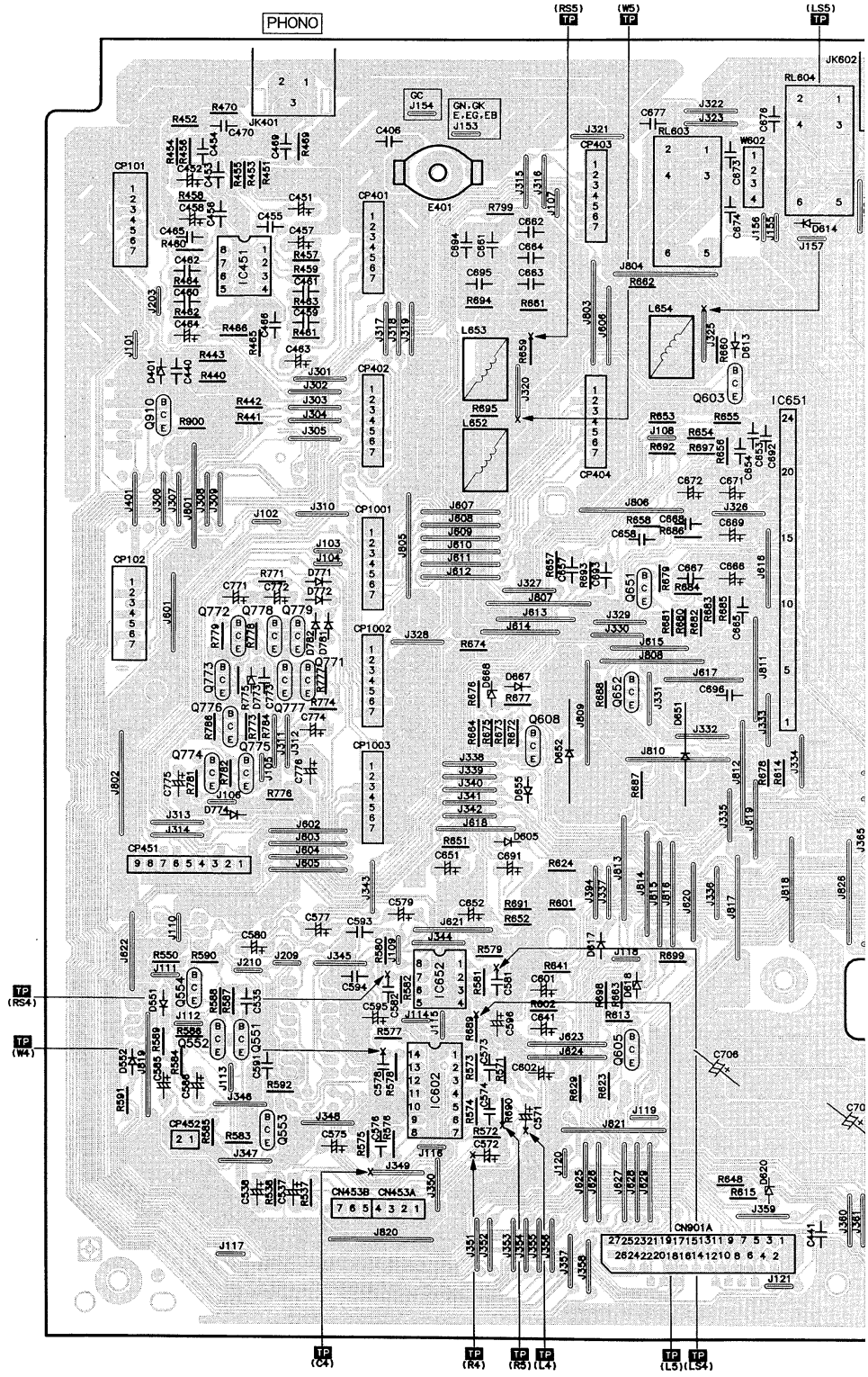
——— : +B Line — — : −B Line



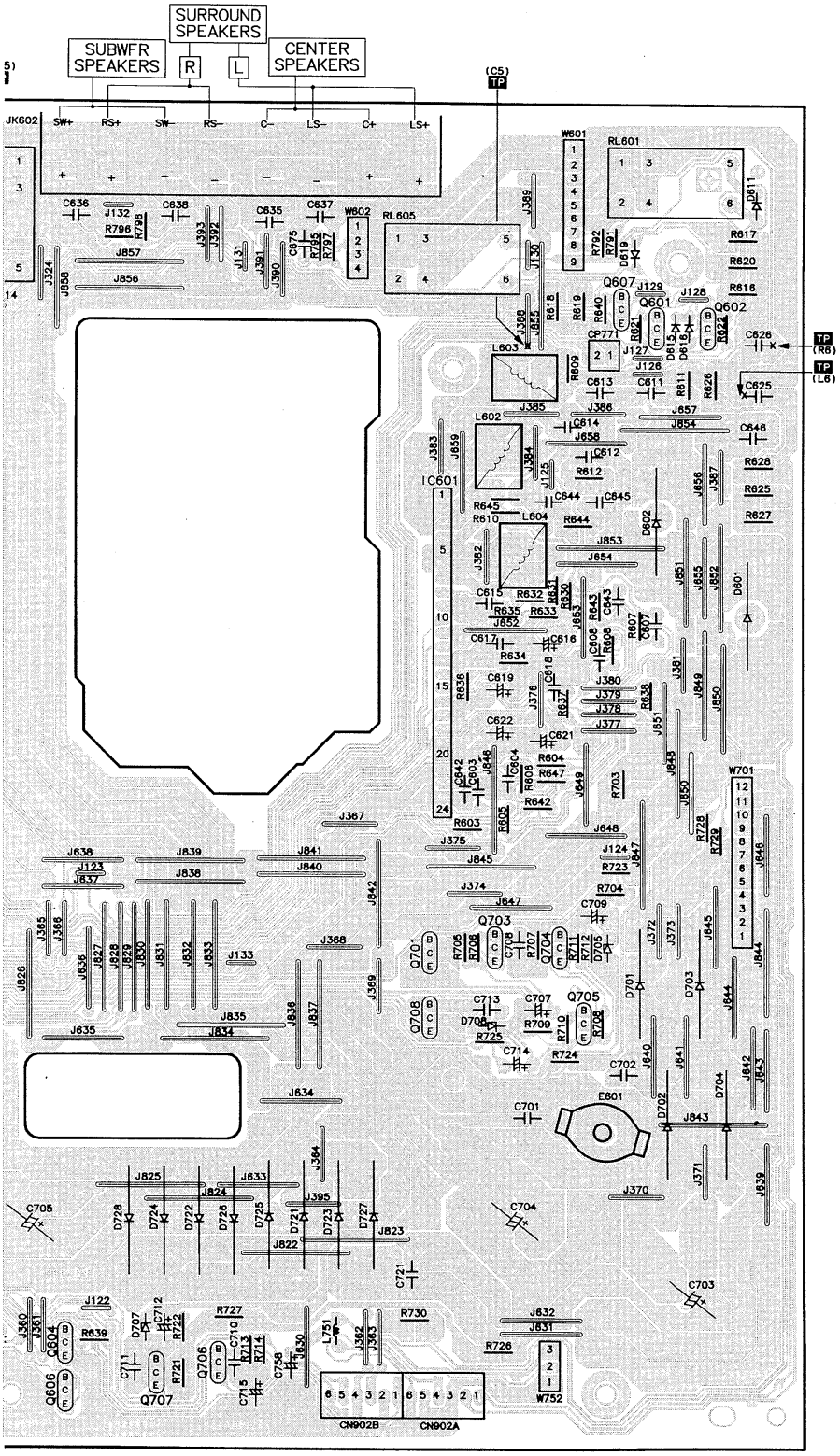
L VIDEO SELECTOR CIRCUIT (P.C.Board on page 38)



A MAIN P.C.B. (REP2676B-M) .. GK, GN (REP2676D-M) ... GC



I J K L M N O P

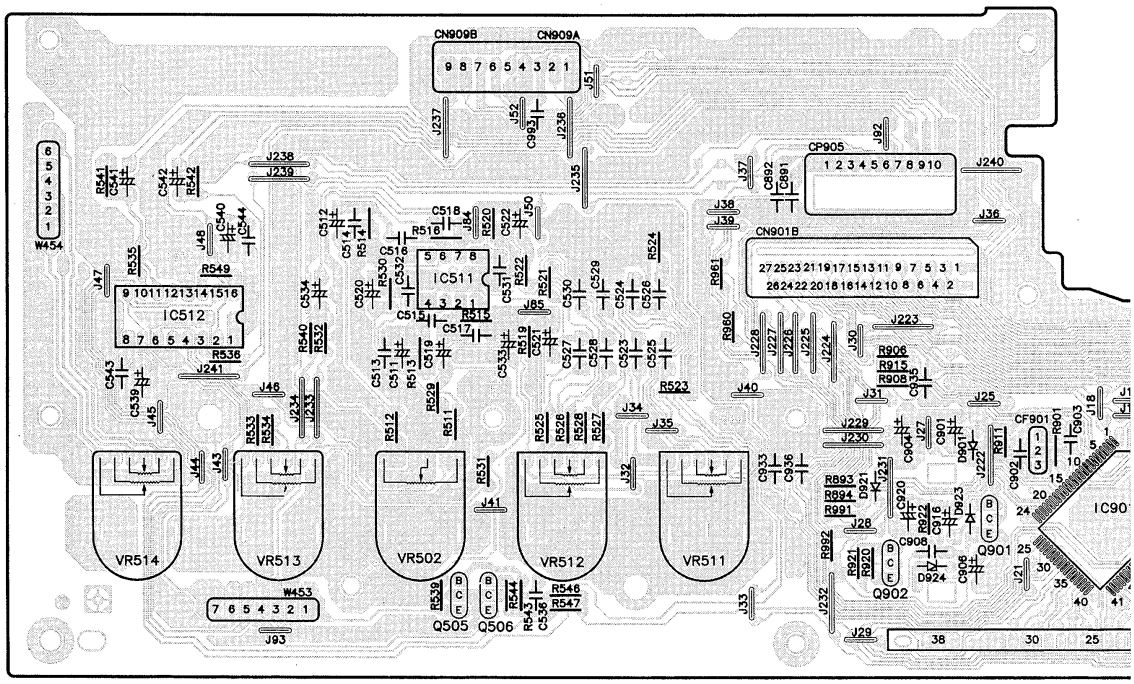


Parts Location Table

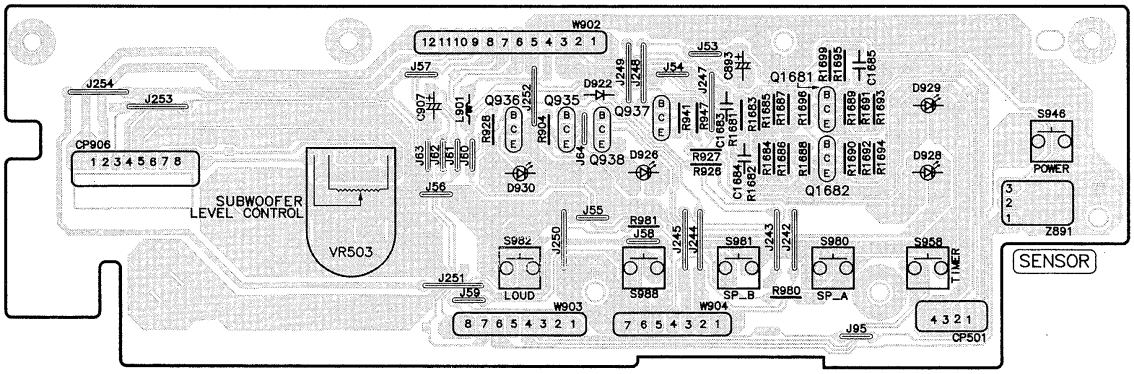
Ref No.	Loc. No.
CN453A	D9
CN453B	D9
CN901A	G10
CN902A	L10
CN902B	K10
CP1001	D5
CP1002	D6
CP1003	D6
CP101	C2
CP102	C5
CP401	D3
CP402	D4
CP403	F2
CP404	F4
CP451	C7
CP452	C9
CP771	M3
D401	C4
D551	C8
D552	C8
D601	N4
D602	M4
D605	E7
D611	N2
D613	G3
D614	G2
D615	N3
D616	N3
D617	F7
D618	F8
D619	M2
D620	G9
D651	F6
D652	F6
D655	E6
D667	E6
D668	E6
D701	M7
D702	N8
D703	N7
D704	N8
D705	M7
D707	J10
D708	L7
D721	K9
D722	J9
D723	K9
D724	J9
D725	K9
D726	K9
D727	L9
D728	J9
D771	D5
D772	D5

Ref No.	Loc. No.
D773	C6
D774	C7
E401	E2
E601	M8
IC451	C3
IC601	L5
IC602	E8
IC651	G5
IC652	E8
JK401	D2
JK602	K2
L602	L3
L603	M3
L604	M4
L652	E4
L653	E3
L654	F3
L751	K10
Q551	C8
Q552	C8
Q553	D9
Q554	C8
Q601	N3
Q602	N3
Q603	G3
Q604	J10
Q605	F8
Q606	J10
Q607	M3
Q608	E6
Q651	F5
Q652	F6
Q701	L7
Q703	L7
Q704	M7
Q705	M7
Q706	K10
Q707	J10
Q708	L7
Q772	C5
Q773	C6
Q774	C6
Q775	C6
Q776	C6
Q777	D6
Q778	D5
RL601	M2
RL603	F2
RL604	G2
RL605	L2
W601	M2
W602	G2
W701	N6
W752	M10

B PANEL P.C.B. (REP2677C-S)



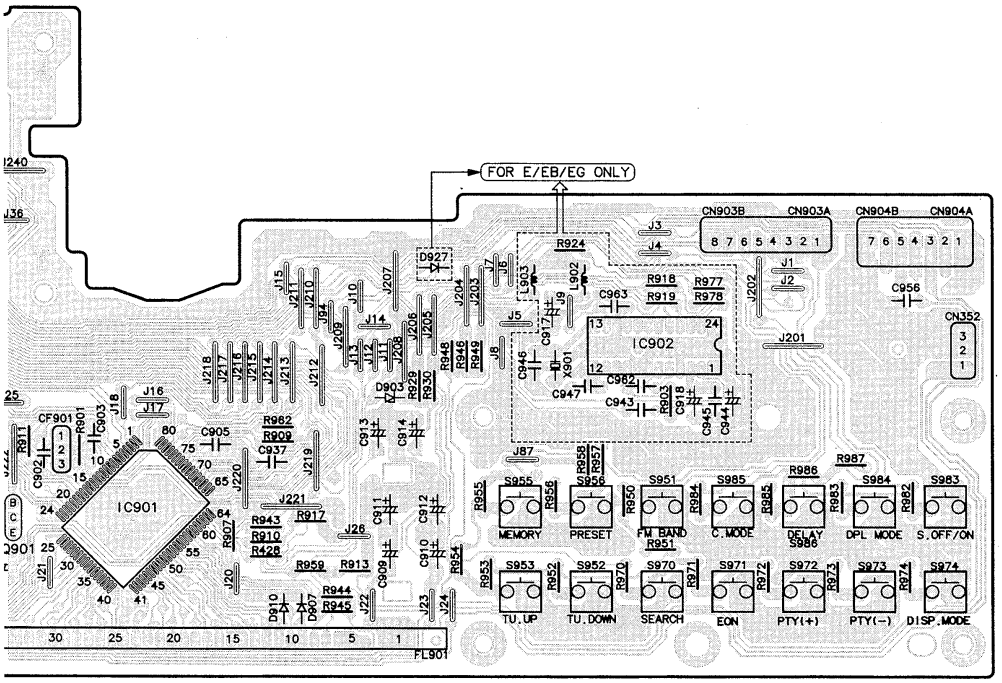
J SUBWOOFER P.C.B. (REP2677C-S)



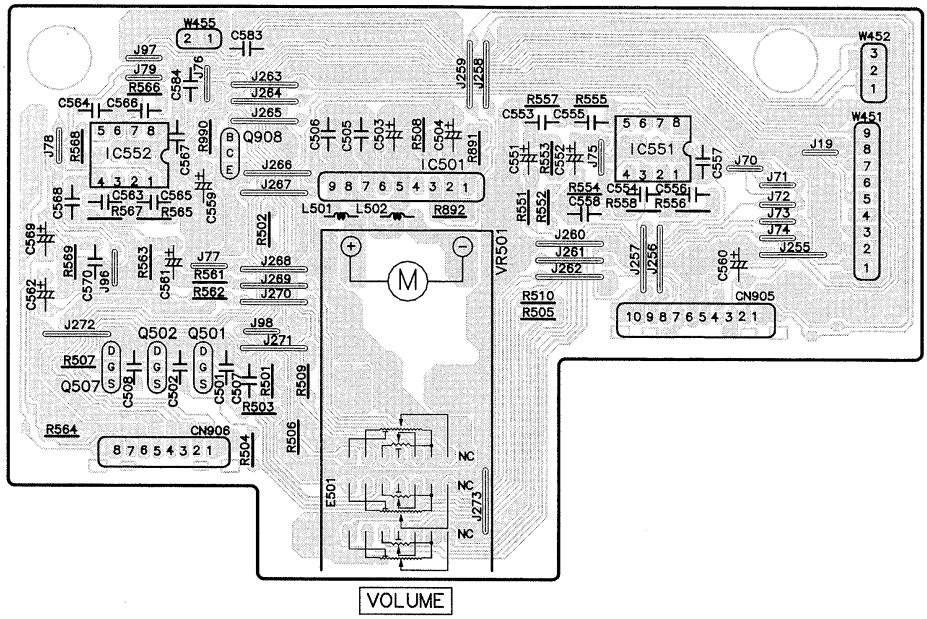
I J K L M N O P

Parts Location Table

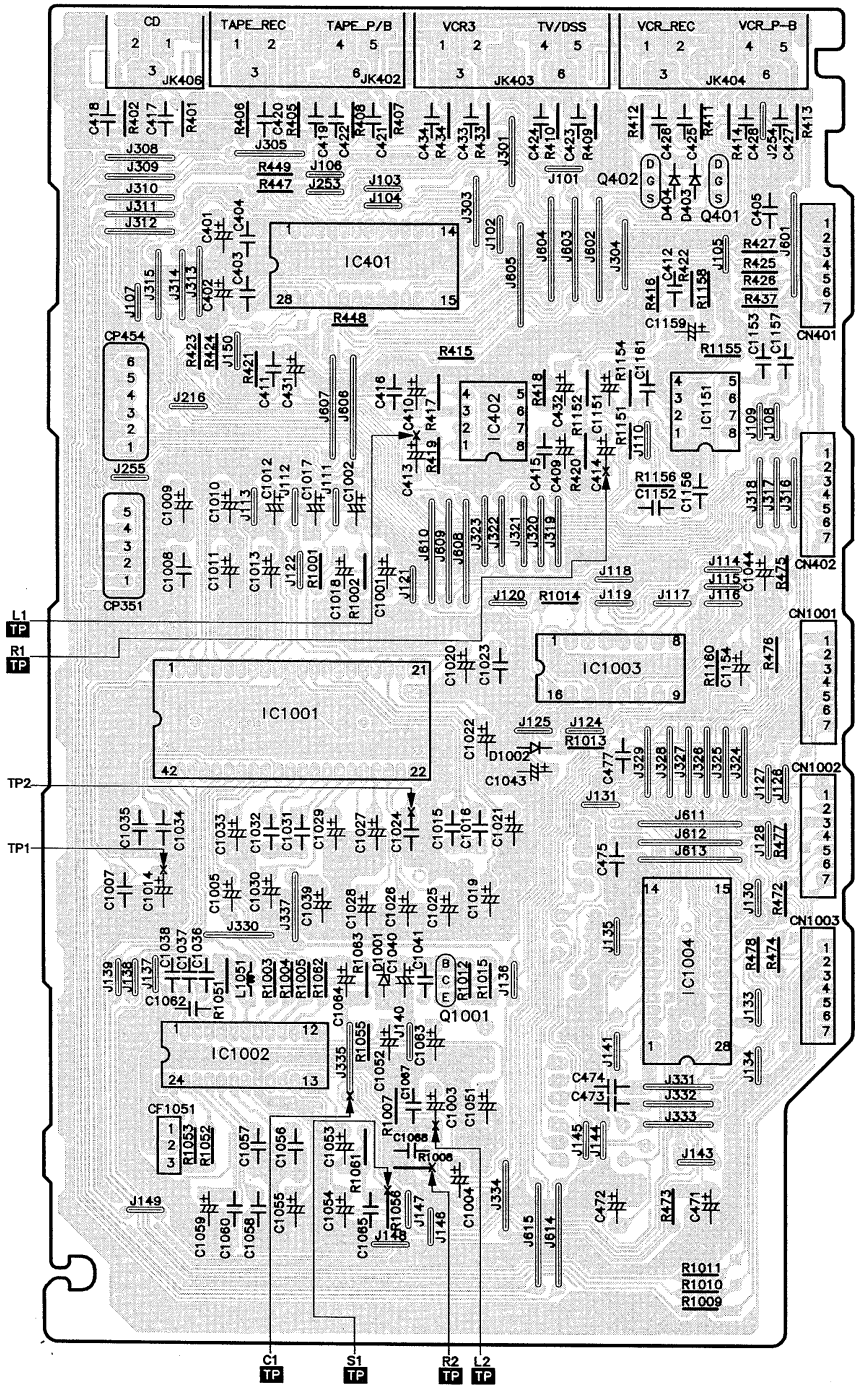
Ref No.	Loc. No.
CF901	G4
CN352	O3
CN901B	E3
CN903A	N3
CN903B	N3
CN904A	O3
CN904B	O3
CN909A	D2
CN909B	D2
CP905	F2
D901	G4
D903	K4
D907	K5
D909	K5
D921	F4
D923	G4
D924	G4
D927	L3
FL901	J5
IC511	C3
IC512	B3
IC901	G4
IC902	M3
L902	M3
L903	L3
Q505	D5
Q506	D5
Q901	G4
Q902	F5
S951	M4
S952	M5
S953	L5
S955	L4
S956	M4
S970	M5
S971	N5
S972	N5
S973	O5
S974	O5
S983	O4
S984	N4
S985	N4
S986	N4
VR502	C4
VR511	E4
VR512	D4
VR514	A4
W453	B5
W454	A2
X901	M3



K VOLUME P.C.B. (REP2677C-S)



E PRO LOGIC P.C.B. (REP2678D-P) ... GC
(REP2678C-P) ... GN
(REP2678B-P) ... GK

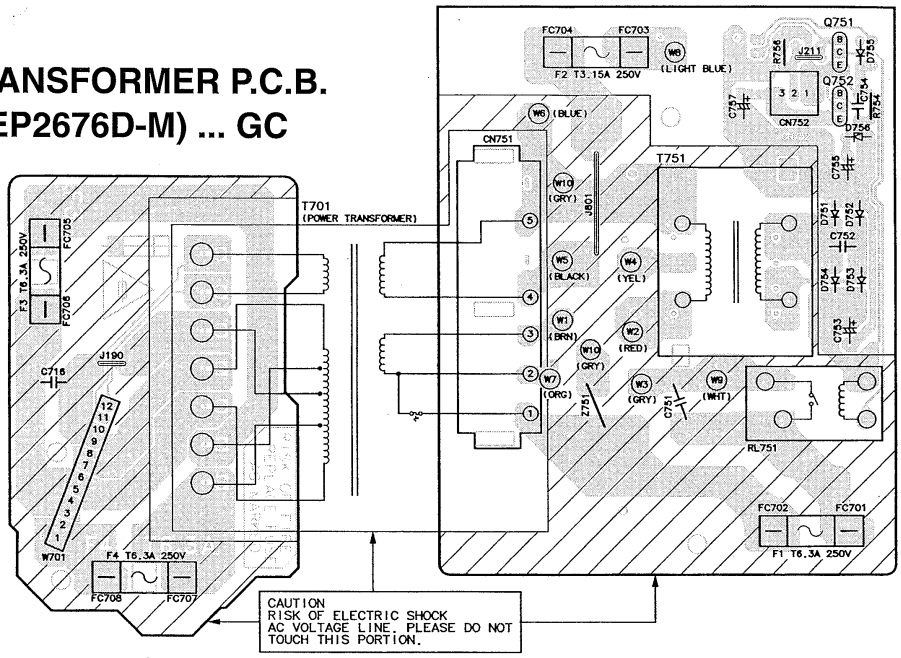


Parts Location Table

Ref No.	Loc. No.
CF1051	B8
CN1001	F6
CN1002	F6
CN1003	F7
CN401	F3
CN402	F4
CP351	B5
CP454	B4
D403	E3
D404	E3
D1001	C8
D1002	D6
IC1001	B6
IC1002	B8
IC1003	D6
IC1004	E7
IC1151	E4
IC401	C3
IC402	D4
JK402	C2
JK403	D2
JK404	E2
JK406	B2
L1051	B8
Q1001	D8
Q401	E3
Q402	E3

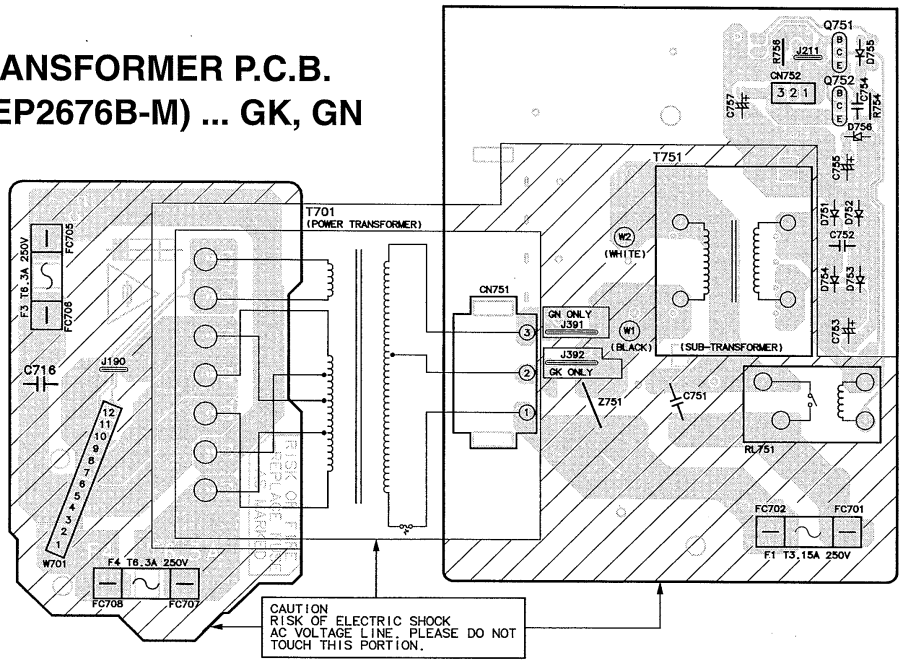
F POWER P.C.B. (REP2678D-P) ... GC

G TRANSFORMER P.C.B. (REP2676D-M) ... GC

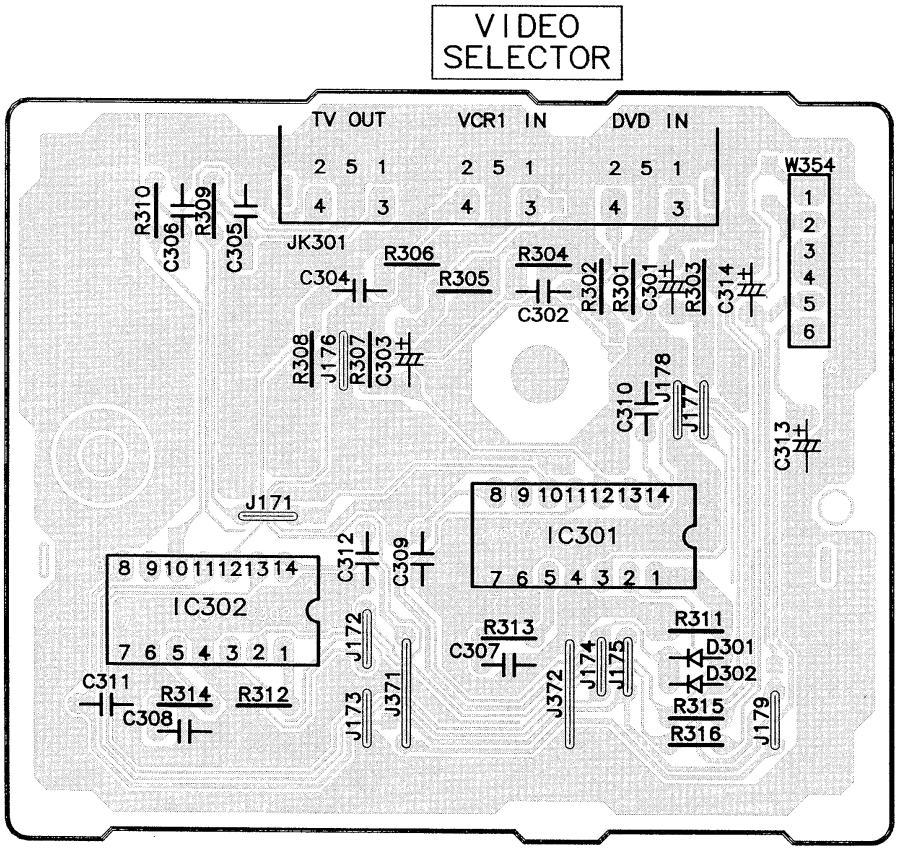


F POWER P.C.B. (REP2678C-P) ... GN (REP2678B-P) ... GK

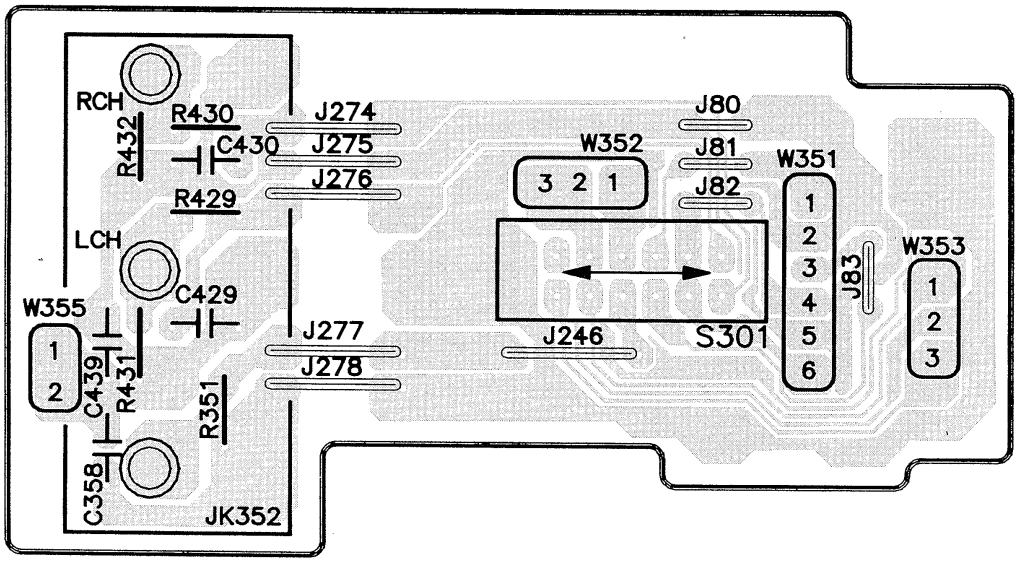
G TRANSFORMER P.C.B. (REP2676B-M) ... GK, GN



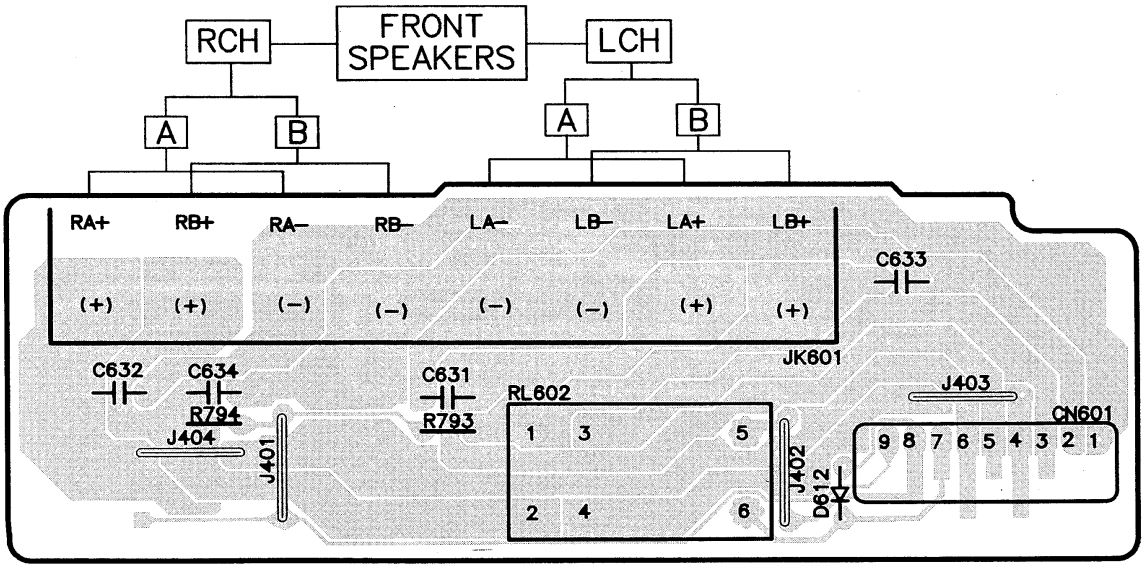
L VIDEO SELECTOR P.C.B. (REP2678D-P) ... GC
(REP2678C-P) ... GN
(REP2678B-P) ... GK



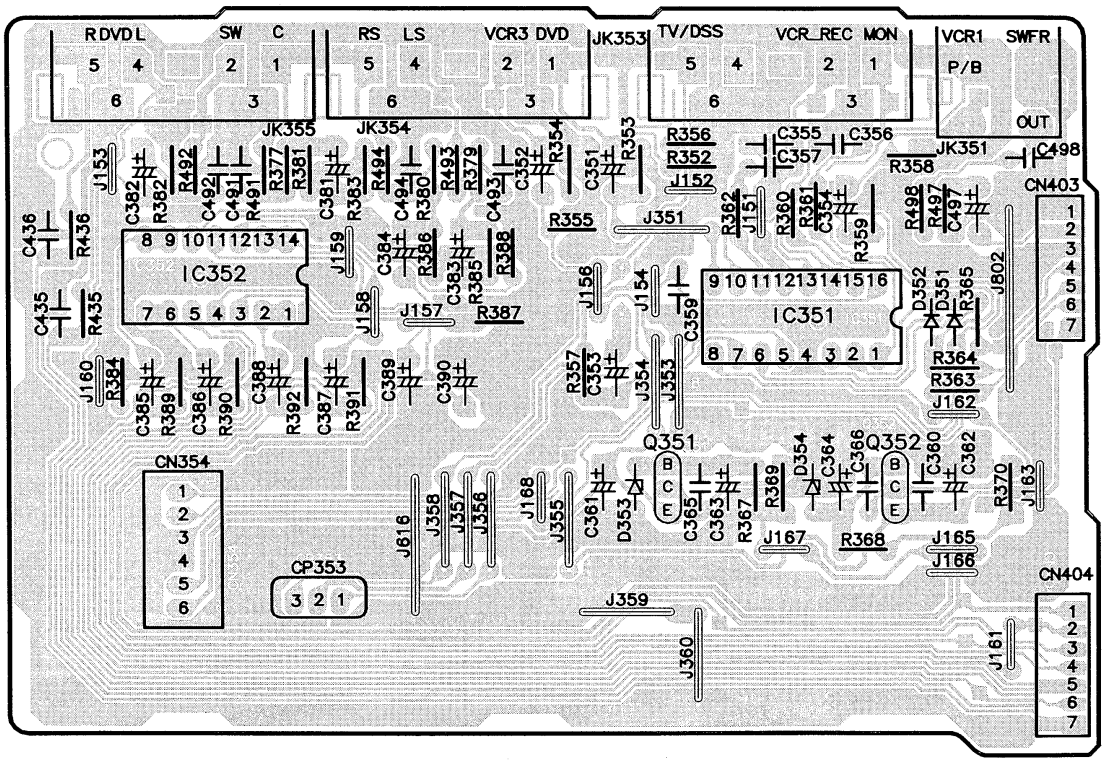
M VCR2 P.C.B. (REP2677C-S)



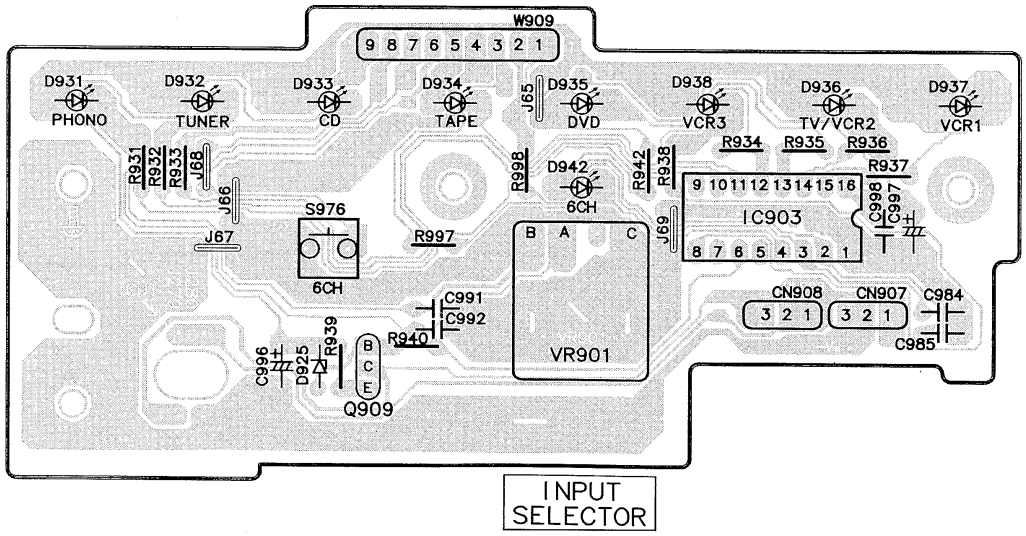
N FRONT SPEAKER P.C.B. (REP2678D-P) ... GC
(REP2678C-P) ... GN
(REP2678B-P) ... GK



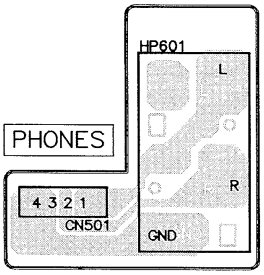
I AC-3 P.C.B. (REP2678D-P) ... GC
(REP2678C-P) ... GN
(REP2678B-P) ... GK



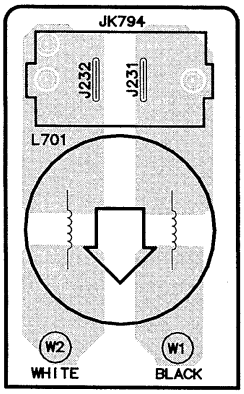
P INPUT SELECTOR P.C.B. (REP2677C-S)



O HEADPHONE JACK P.C.B. (REP2677C-S)

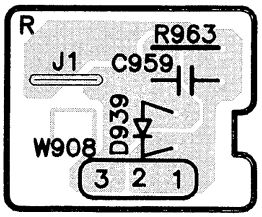


H AC IN/OUT P.C.B. (REP2678C-P) ... GN (REP2678B-P) ... GK



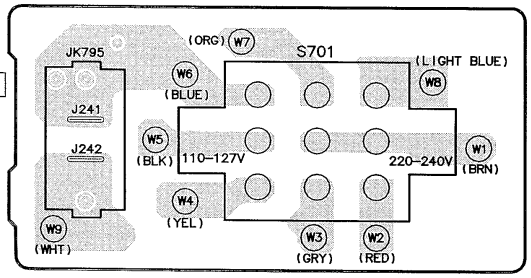
AC IN ~
220-230V ... GK
230-240V ... GN
50Hz

Q BLUE LED P.C.B. (REP2709A-S)



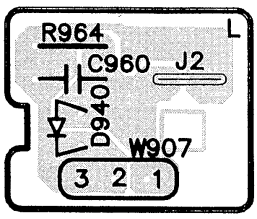
(RIGHT)

H AC IN/OUT P.C.B. (REP2678D-P) ... GC

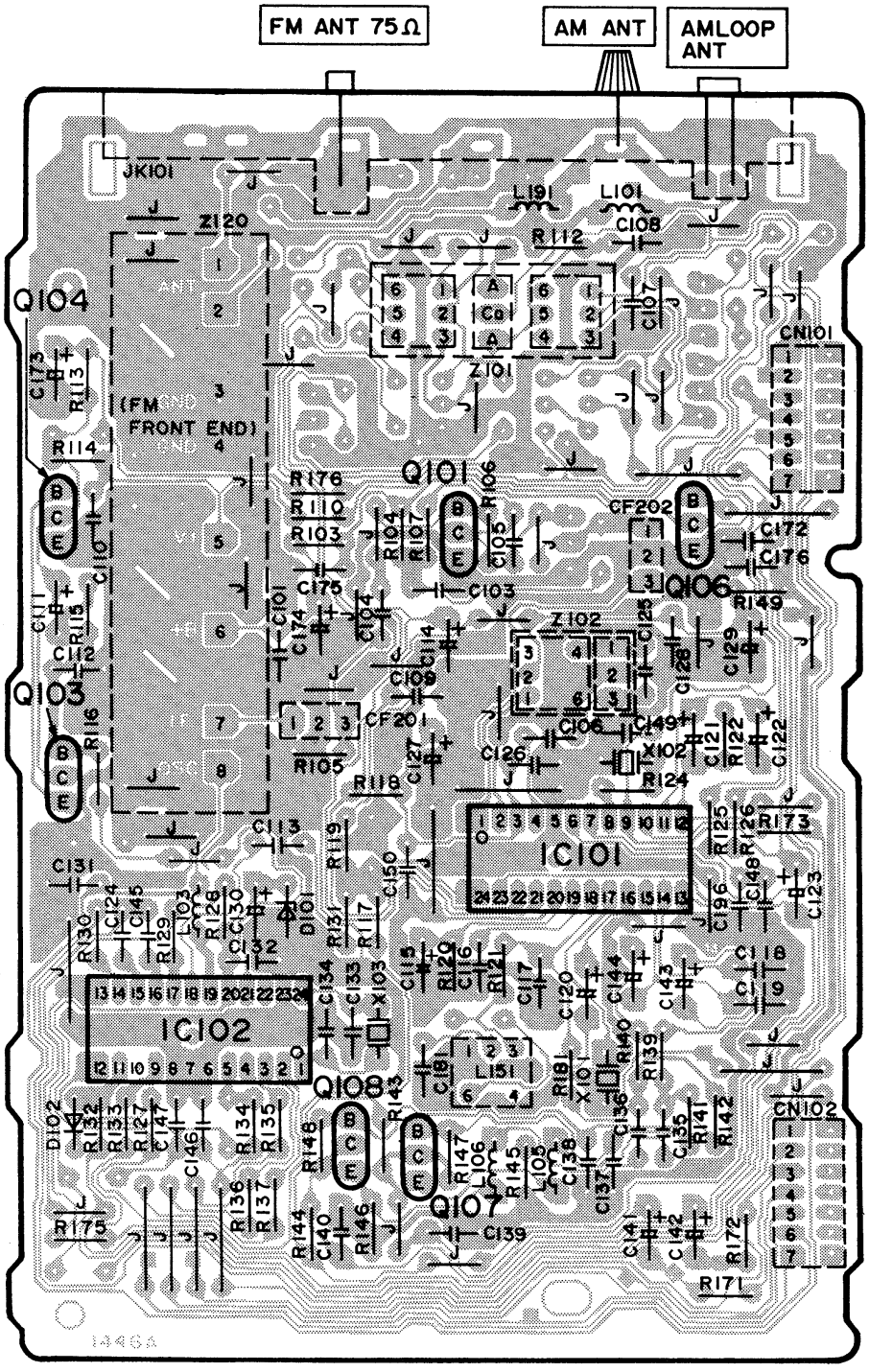


AC IN ~
110–127V
220–240V
50/60HZ
. . . . GC

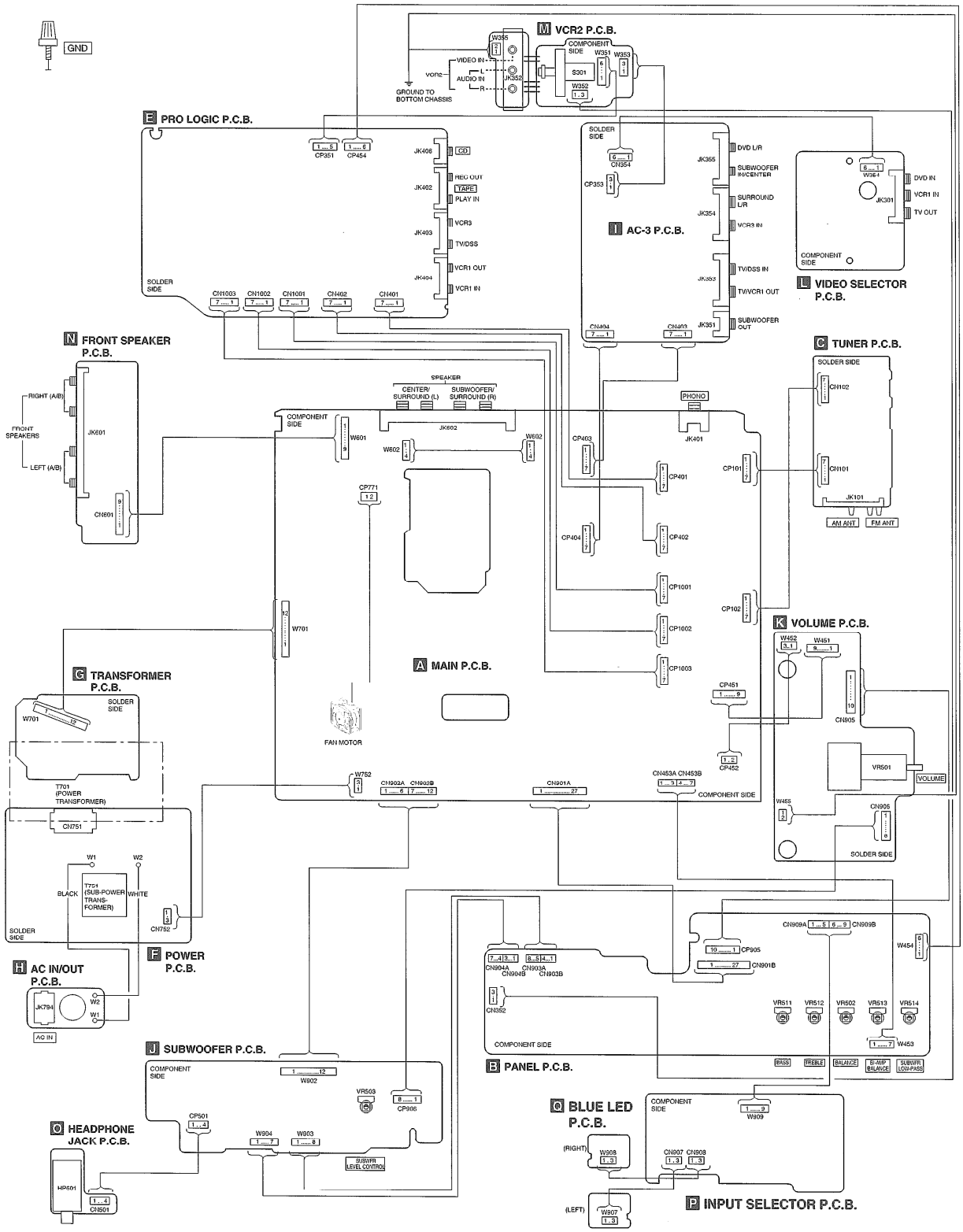
(LEFT)



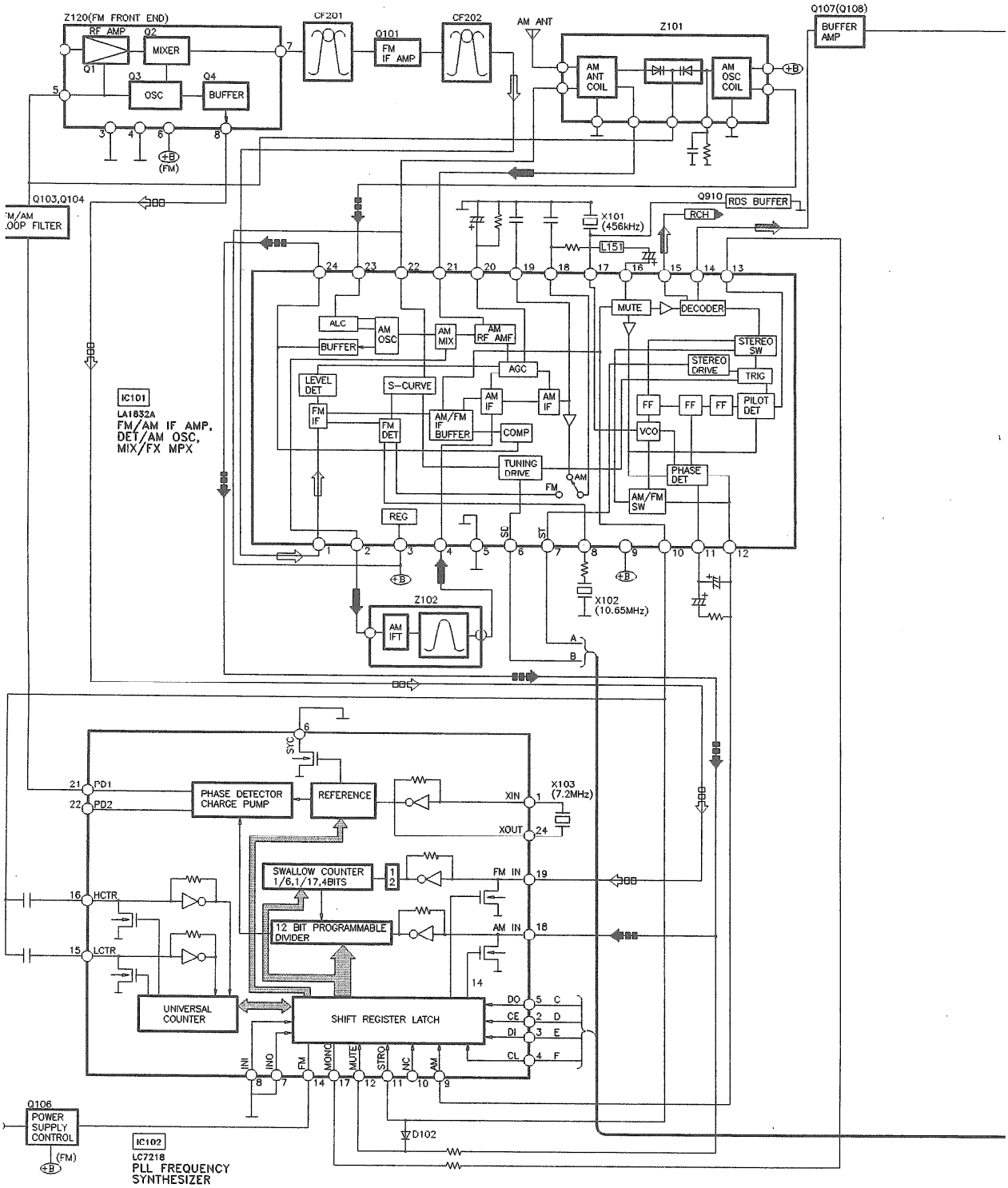
C TUNER P.C.B. (REP2254C-T) ... GC, GN
(REP2158D-T) ... GK

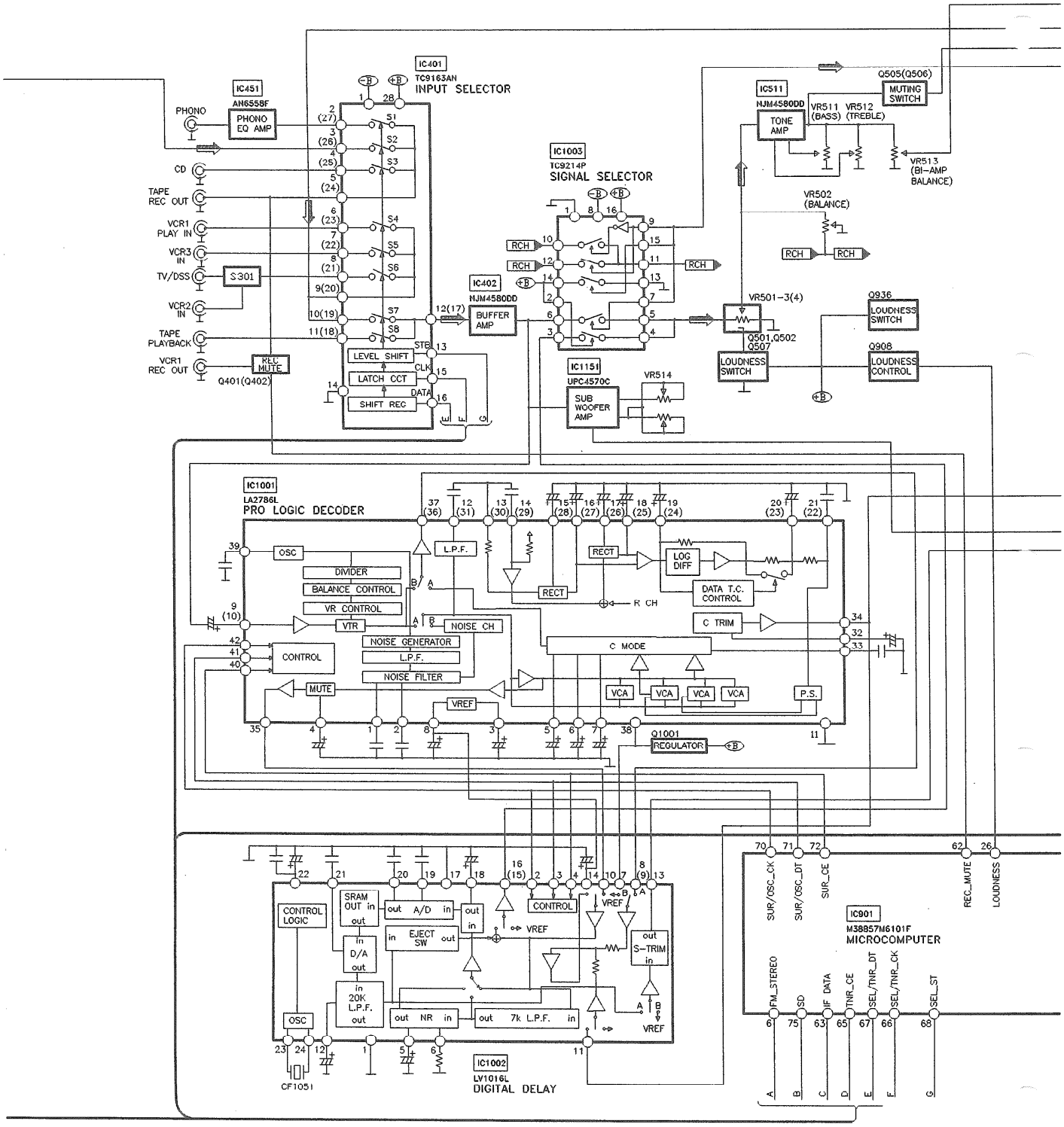


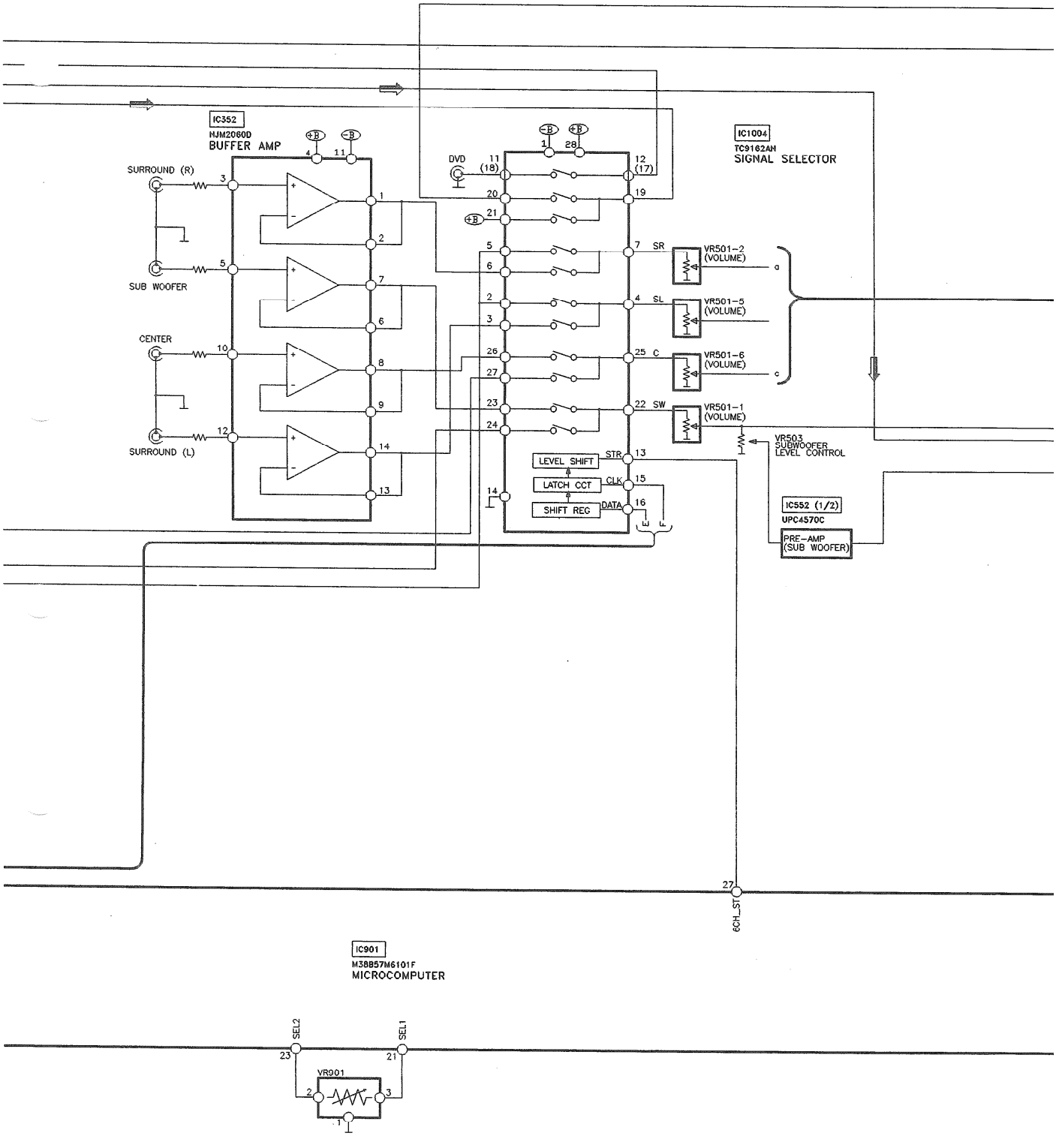
Wiring Connection Diagram

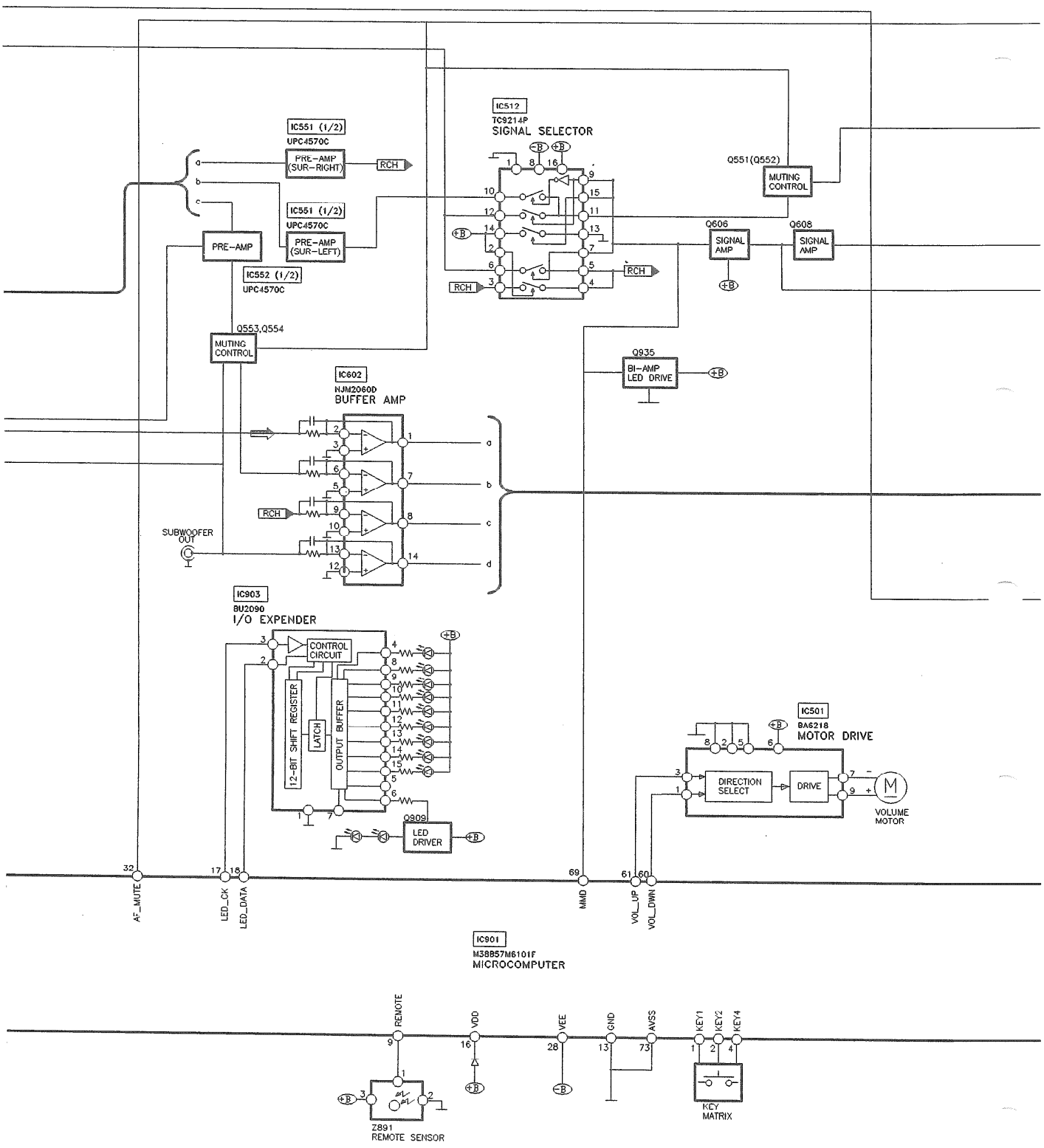


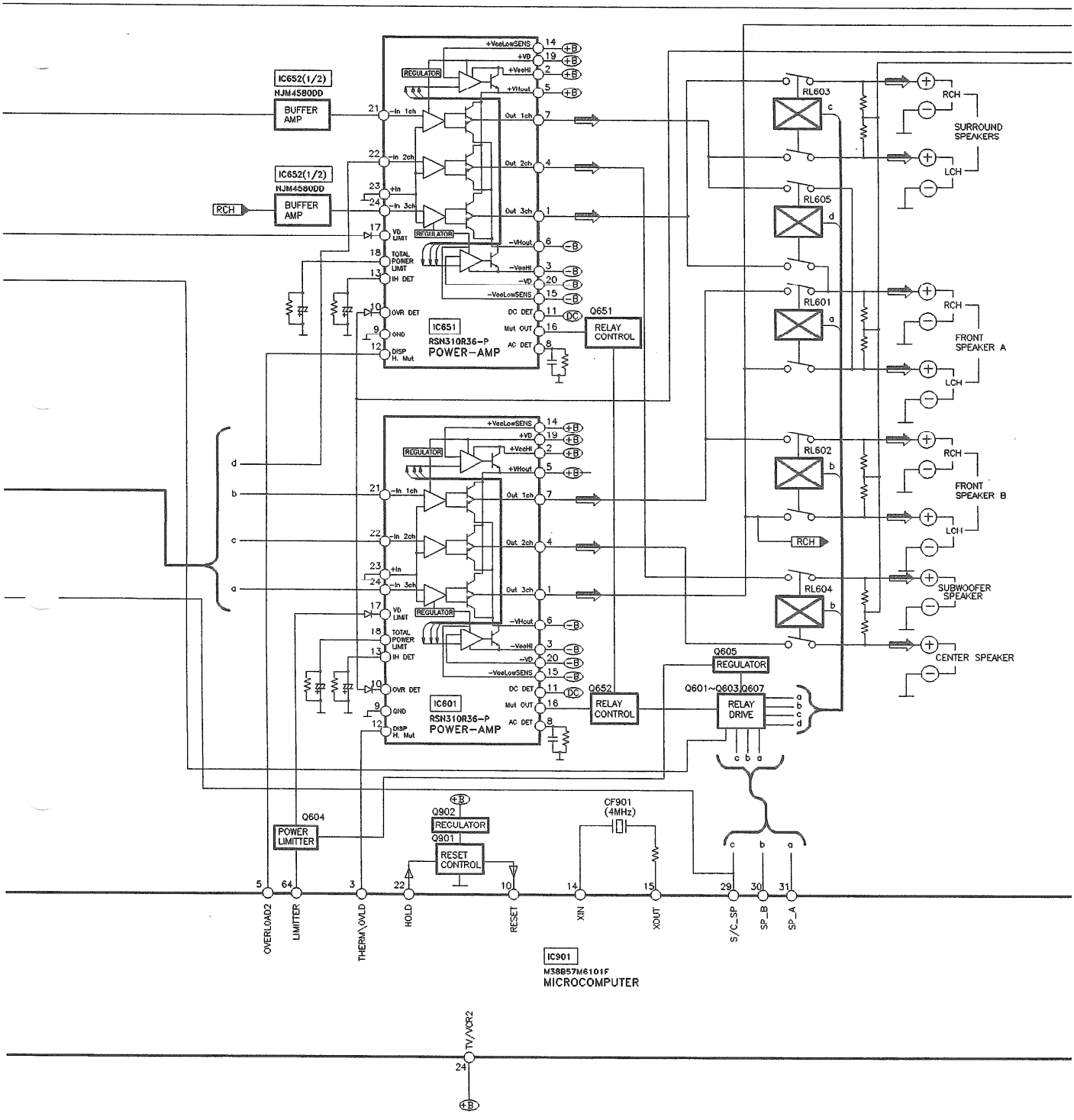
■ Block Diagram

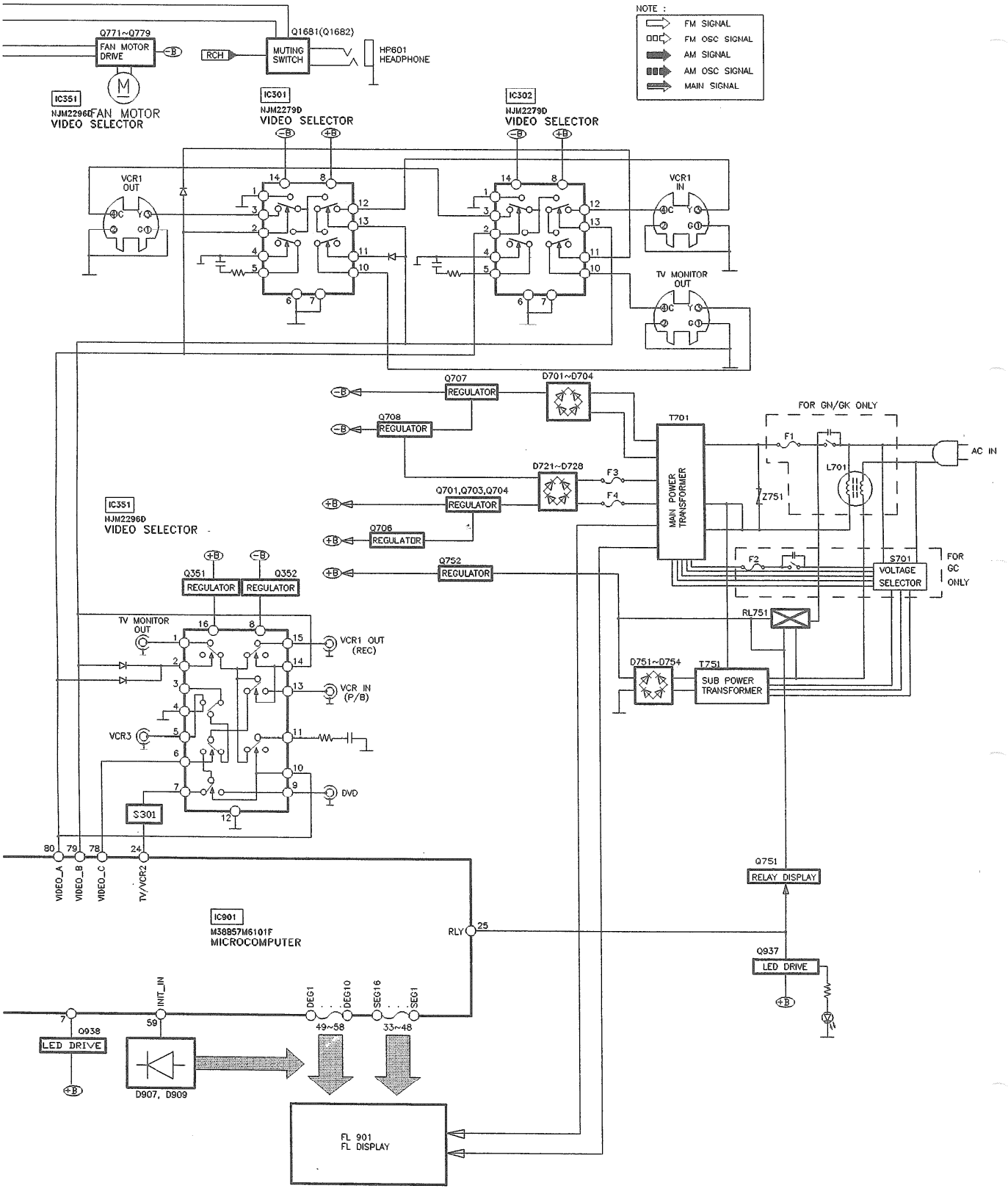



IC401
TC9163AN
INPUT SELECTOR
IC451
AN6558F
PHONO EQ AMP
PHONO
CD
TAPE REC OUT
VCR1 PLAY IN
VCR3 IN
TV/DSS
VCR2 IN
TAPE PLAYBACK
VCR1 REC OUT
S301
REC MUTE
Q401(Q402)
LEVEL SHIFT
LATCH CCT
SHIFT REG
IC402
NJM4580DD
BUFFER AMP
IC1003
TC9214P
SIGNAL SELECTOR
RCH
IC1151
UPC4570C
SUB WOOFER AMP
VR514
VR501-3(4)
Q501,Q502
Q507
LOUDNESS SWITCH
Q936
LOUDNESS SWITCH
Q908
LOUDNESS CONTROL
VR502 (BALANCE)
IC511
NJM4580DD
TONE AMP
VR511 (BASS)
VR512 (TREBLE)
VR513 (BI-AMP BALANCE)
Q505(Q506)
MUTING SWITCH
IC1001
LA2786L
PRO LOGIC DECODER
OSC
DIVIDER
BALANCE CONTROL
VR CONTROL
VTR
CONTROL
MUTE
L.P.F.
NOISE GENERATOR
NOISE FILTER
VREF
RECT
LOG DIFF
DATA T.C. CONTROL
R CH
NOISE CH
C TRIM
C MODE
VCA
P.S.
Q1001
REGULATOR
IC1002
LV1016L
DIGITAL DELAY
CONTROL LOGIC
SRAM
A/D
D/A
EJECT SW
20K L.P.F.
NR
7k L.P.F.
S-TRIM
CF1051
IC901
M38857M6101F
MICROCOMPUTER
SUR/OSC_CK
SUR/OSC_DT
SUR_CE
REC_MUTE
LOUDNESS
FM_STEREO
SD
IF DATA
TNR_CE
SEL/TNR_DT
SEL/TNR_CK
SEL_ST

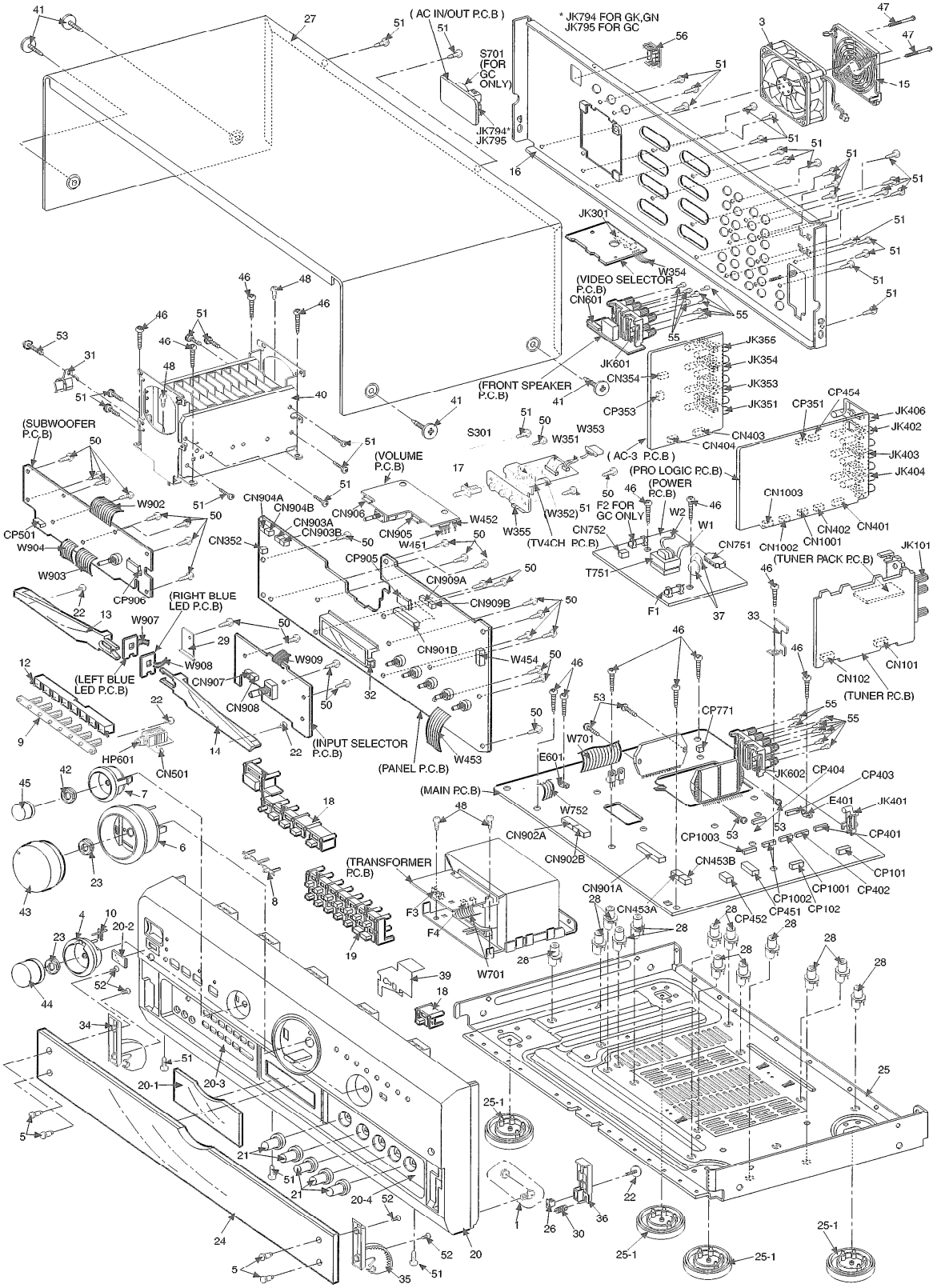

IC352
NJM2060D
BUFFER AMP
SURROUND (R)
SUB WOOFER
CENTER
SURROUND (L)
DVD
IC1004
TC9162AN
SIGNAL SELECTOR
SR
SL
C
SW
VR501-2 (VOLUME)
VR501-5 (VOLUME)
VR501-6 (VOLUME)
VR501-1 (VOLUME)
VR503 SUBWOOFER LEVEL CONTROL
LEVEL SHIFT
LATCH CCT
SHIFT REG
STR
CLK
DATA
IC552 (1/2)
UPC4570C
PRE-AMP (SUB WOOFER)
6CH_ST
IC901
M38B57M6101F
MICROCOMPUTER
SEL2
SEL1
VR901


IC551 (1/2)
UPC4570C
PRE-AMP (SUR-RIGHT)
RCH
IC551 (1/2)
UPC4570C
PRE-AMP (SUR-LEFT)
PRE-AMP
IC552 (1/2)
UPC4570C
IC512
TC9214P
SIGNAL SELECTOR
Q551(Q552)
MUTING CONTROL
Q606
SIGNAL AMP
Q608
SIGNAL AMP
Q553,Q554
MUTING CONTROL
Q935
BI-AMP LED DRIVE
IC602
NJM2060D
BUFFER AMP
SUBWOOFER OUT
IC903
BU2090
I/O EXPENDER
CONTROL CIRCUIT
12-BIT SHIFT REGISTER
LATCH
OUTPUT BUFFER
Q909
LED DRIVER
IC501
BA6218
MOTOR DRIVE
DIRECTION SELECT
DRIVE
VOLUME MOTOR
AF_MUTE
LED_CK
LED_DATA
NMD
VOL_UP
VOL_DWN
IC901
M38B57M6101F
MICROCOMPUTER
REMOTE
VDD
VEE
GND
AVSS
KEY1
KEY2
KEY4
Z891
REMOTE SENSOR
KEY MATRIX


IC652(1/2)
NJM4580DD
BUFFER AMP
IC652(1/2)
NJM4580DD
BUFFER AMP
RCH
REGULATOR
+VeeLowSENS
+VD
+VeeHI
+VHout
-In 1ch
-In 2ch
+In
-In 3ch
VD LIMIT
TOTAL POWER LIMIT
IH DET
OVR DET
GND
DISP H. Mut
Out 1ch
Out 2ch
Out 3ch
-VHout
-VeeHI
-VD
-VeeLowSENS
DC DET
Mut OUT
AC DET
IC651
RSN310R36-P
POWER-AMP
Q651
RELAY CONTROL
IC601
RSN310R36-P
POWER-AMP
Q652
RELAY CONTROL
RL603
RL605
RL601
RL602
RL604
RCH
SURROUND SPEAKERS
LCH
FRONT SPEAKER A
FRONT SPEAKER B
SUBWOOFER SPEAKER
CENTER SPEAKER
Q605
REGULATOR
Q601~Q603,Q607
RELAY DRIVE
Q604
POWER LIMITTER
Q902
REGULATOR
Q901
RESET CONTROL
CF901
(4MHz)
OVERLOAD2
LIMITTER
THERM\OVLD
HOLD
RESET
XIN
XOUT
S/C_SP
SP_B
SP_A
IC901
M38B57M6101F
MICROCOMPUTER
TV/VCR2


NOTE :
FM SIGNAL
FM OSC SIGNAL
AM SIGNAL
AM OSC SIGNAL
MAIN SIGNAL
Q771~Q779
FAN MOTOR DRIVE
FAN MOTOR
Q1681(Q1682)
MUTING SWITCH
RCH
HP601 HEADPHONE
IC351
NJM2296D
VIDEO SELECTOR
IC301
NJM2279D
VIDEO SELECTOR
IC302
NJM2279D
VIDEO SELECTOR
VCR1 OUT
VCR1 IN
TV MONITOR OUT
Q707
REGULATOR
Q708
REGULATOR
D701~D704
T701
MAIN POWER TRANSFORMER
FOR GN/GK ONLY
F1
AC IN
L701
Z751
D721~D728
F3
F4
Q701,Q703,Q704
REGULATOR
Q706
REGULATOR
Q752
REGULATOR
F2
S701
VOLTAGE SELECTOR
FOR GC ONLY
Q351
REGULATOR
Q352
REGULATOR
RL751
D751~D754
T751
SUB POWER TRANSFORMER
VCR1 OUT (REC)
VCR IN (P/B)
VCR3
DVD
S301
VIDEO_A
VIDEO_B
VIDEO_C
TV/VCR2
IC901
M38B57M6101F
MICROCOMPUTER
RLY
Q751
RELAY DISPLAY
Q937
LED DRIVE
Q938
LED DRIVE
INIT_IN
DEG1
DEG10
SEG16
SEG1
49~58
33~48
D907, D909
FL 901
FL DISPLAY

■ Cabinet Parts Location



■ Replacement Parts List

Notes: * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
* [M] in Remarks column indicates parts that are supplied by **MESA**.

Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RDG0438	GEAR	[M]
3	REM0080	FAN UNIT	[M]
4	RGK0994-N	SELECTOR RING	[M]
5	RGK1025-K	DOOR NUT	[M]
6	RGK1026-S	VOLUME RING	[M]
7	RGK1027-S	SUBWOOFER RING	[M]
8	RGK1028A-S	MMD RING	[M]
9	RGK1028-S	LIGHT RING	[M]
12	RGL0411-Q	LIGHT GUIDE	[M]
13	RGL0412-Q	DOOR LIGHT (L)	[M]
14	RGL0413-Q	DOOR LIGHT (R)	[M]
15	RGQ0231-K	FAN COVER	[M]
16	RGR0268B-C	REAR PANEL	[M]GN
16	RGR0268B-D	REAR PANEL	[M]GK
16	RGR0268D-A	REAR PANEL	[M]GC
17	RGU1390-K	VCR2 BUTTON	[M]
18	RGU1642-K	SPEAKER BUTTON	[M]
19	RGU1643-S	MODE BUTTON	[M]
20	RFKGAAX6GCK	FRONT PANEL ASS'Y	[M]
20-1	RKW0541-Q	FL WINDOW	[M]
20-2	RKW0273-K	SENSOR WINDOW	[M]
20-3	RGH0148C-K	DOOR SHEET L	[M]
20-4	RGH0149-K	DOOR SHEET R	[M]
21	RGW0285-S	TONE KNOB	[M]
22	RHD26016	SCREW	[M]
23	RHN90001	M9 NUT	[M]
24	RKF0558-Q	DOOR	[M]
25	RFKJAAX6PPK	BOTTOM CHASSIS ASS'Y	[M]
25-1	RKA0079-A	FOOT	[M]
26	RKG0009	MAGNET	[M]
27	RKM0373A-K	TOP CABINET	[M]
28	RKQ0089-J	PCB HOLDER	[M]
29	RMA1149	GUIDE ANGLE	[M]
30	RMB0581	OPEN SPRING	[M]
31	RMC0158-S	TRANSISTOR HOLDER	[M]
32	RMN0483	FL HOLDER	[M]
33	RMQ0709	TUNER PCB BRACKET	[M]
34	RMQ0800	DOOR ARM L	[M]
35	RMQ0801	DOOR ARM R	[M]
36	RMR1172-K	OPEN PLATE	[M]
37	RMZ0339	ZNR COVER	[M]
39	RSC0518	SHIELD SHEET	[M]
40	RXX0194	HEAT SINK UNIT	[M]
41	SNE2129-1	SCREW (CABINET)	[M]
42	SNE4021-1	M8 NUT	[M]
43	RGW0286-K	VOLUME KNOB UNIT	[M]
44	RGW0287-K	SELECTOR KNOB UNIT	[M]
45	RGW0288-K	SUBWOOFER KNOB UNIT	[M]
46	XTB3+20JFZ	SCREW	[M]
47	XTB3+35JFZ	SCREW (FAN)	[M]
48	XTB3+8FFZ	SCREW	[M]
49	XTB3+8JFZ	SCREW	[M]
50	XTBS26+10J	SCREW	[M]
51	XTBS3+8JFZ1	SCREW	[M]
52	XTS26+8JFZ	SCREW	[M]
53	XTW3+15T	SCREW	[M]
55	RMR1165-K	SPEAKER COVER	[M]
56	SJS9231A	A/C INLET COVER	[M]
		INTEGRATED CIRCUITS	
IC101	LA1832A	IC, IF/MPX	[M]
IC102	LC7218	IC, PLL	[M]
IC301	NJM2279D	IC, VIDEO SELECTOR S	[M]
IC302	NJM2279D	IC, VIDEO SELECTOR S	[M]
IC351	NJM2296D	IC, VIDEO SELECTOR	[M]
IC352	NJM2060D	IC, OP AMP	[M]
IC401	TC9163AN	IC, SELECTOR	[M]
IC402	NJM4580DD	IC, OP AMP	[M]
IC451	AN6558F	IC, OP AMP	[M]
IC501	BA6218	IC, MOTOR DRIVER	[M]
IC511	NJM4580DD	IC, OP AMP	[M]
IC512	TC9214P	IC, SELECTOR	[M]
IC551	UPC4570C	IC, TONE CONTROL	[M]
IC552	UPC4570C	IC, TONE CONTROL	[M]
IC601	RSN310R36-P	IC, HIC	[M] ⚠
IC602	NJM2060D	IC, OP AMP	[M]
IC651	RSN310R36-P	IC, HIC ⚠	[M]
IC652	NJM4580DD	IC, OP AMP	[M]
IC901	M38B57M6101F	IC, MICROCOMPUTER	[M]
IC903	BU2090	IC, EXPANDER	[M]
IC1001	LA2786L	IC, DPL	[M]
IC1002	LV1016L	IC, SURR DECODER	[M]
IC1003	TC9214P	IC, SELECTOR	[M]
IC1004	TC9162AN	IC, SELECTOR	[M]
IC1151	UPC4570C	IC, TONE CONTROL	[M]
		TRANSISTORS	
Q101	2SC2787LTA	TRANSISTOR	[M]
Q103	2SC2785FETA	TRANSISTOR	[M]
Q104	2SC2785FETA	TRANSISTOR	[M]
Q106	RVTDTA143XST	TRANSISTOR	[M]
Q107	2SC3311ARTA	TRANSISTOR	[M]
Q108	2SC3311ARTA	TRANSISTOR	[M]
Q351	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q352	2SA1534AQRTA	TRANSISTOR	[M] ⚠
Q401	2SK381CTA	TRANSISTOR	[M]
Q402	2SK381CTA	TRANSISTOR	[M]
Q501	2SJ40CTA	TRANSISTOR	[M]
Q502	2SJ40CTA	TRANSISTOR	[M]
Q505	2SD1915FTA	TRANSISTOR	[M]
Q506	2SD1915FTA	TRANSISTOR	[M]
Q507	2SJ40CTA	TRANSISTOR	[M]
Q551	2SD1915FTA	TRANSISTOR	[M]
Q552	2SD1915FTA	TRANSISTOR	[M]
Q553	2SD1915FTA	TRANSISTOR	[M]
Q554	2SD1915FTA	TRANSISTOR	[M]
Q601	RVTDTA143XST	TRANSISTOR	[M]
Q602	RVTDTA143XST	TRANSISTOR	[M]
Q603	RVTDTA143XST	TRANSISTOR	[M]
Q604	RVTDTA114EST	TRANSISTOR	[M]
Q605	RVTDTA114EST	TRANSISTOR	[M] ⚠
Q606	RVTDTA114EST	TRANSISTOR	[M]
Q607	RVTDTA143XST	TRANSISTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
Q608	RVTDTA114EST	TRANSISTOR	[M]
Q651	RVTDTA143XST	TRANSISTOR	[M]
Q652	RVTDTA143XST	TRANSISTOR	[M]
Q701	2SD2374PQAU	TRANSISTOR	[M] ⚠
Q703	2SC1740SQSTA	TRANSISTOR	[M] ⚠
Q704	2SC1740SQSTA	TRANSISTOR	[M] ⚠
Q705	2SC1740SQSTA	TRANSISTOR	[M] ⚠
Q706	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q707	2SA1534AQRTA	TRANSISTOR	[M] ⚠
Q708	2SB1548PQAU	TRANSISTOR	[M] ⚠
Q751	RVTDTC143XST	TRANSISTOR	[M]
Q752	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q771	2SA933SQRSTA	TRANSISTOR	[M]
Q772	2SC1740SQSTA	TRANSISTOR	[M]
Q773	2SB621AQSTA	TRANSISTOR	[M]
Q774	RVTDTA113ZST	TRANSISTOR	[M]
Q775	RVTDTA114EST	TRANSISTOR	[M]
Q776	2SC1740SQSTA	TRANSISTOR	[M]
Q777	2SA933SQRSTA	TRANSISTOR	[M]
Q778	2SA933SQRSTA	TRANSISTOR	[M]
Q779	2SA933SQRSTA	TRANSISTOR	[M]
Q901	RVTDTC114YST	TRANSISTOR	[M]
Q902	2SA933SSTA	TRANSISTOR	[M] ⚠
Q908	RVTDTC114YST	TRANSISTOR	[M]
Q909	2SA933SSTA	TRANSISTOR	[M]
Q910	2SC1740SQSTA	TRANSISTOR	[M]
Q935	RVTDTC114YST	TRANSISTOR	[M]
Q936	RVTDTC114YST	TRANSISTOR	[M]
Q937	2SA933SSTA	TRANSISTOR	[M]
Q938	RVTDTC114YST	TRANSISTOR	[M]
Q1001	2SC3940AQSTA	TRANSISTOR	[M] ⚠
Q1681	2SD1915FTA	TRANSISTOR	[M]
Q1682	2SD1915FTA	TRANSISTOR	[M]
		DIODES	
D101	MTZJ5R1BTA	DIODE	[M] ⚠
D102	MA165TA	DIODE	[M]
D301	RVD1SS133TA	DIODE	[M] ⚠
D302	RVD1SS133TA	DIODE	[M] ⚠
D351	RVD1SS133TA	DIODE	[M] ⚠
D352	RVD1SS133TA	DIODE	[M]
D353	MTZJ5R6BTA	DIODE	[M]
D354	MTZJ5R6BTA	DIODE	[M]
D401	MTZJ7R5CTA	DIODE	[M]
D403	RVD1SS133TA	DIODE	[M]
D404	RVD1SS133TA	DIODE	[M]
D551	RVD1SS133TA	DIODE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
D552	RVD1SS133TA	DIODE	[M]
D601	RK306LFU1	DIODE	[M]
D602	RK306LFU1	DIODE	[M]
D605	RVD1SS133TA	DIODE	[M]
D611	RVD1SS133TA	DIODE	[M]
D612	RVD1SS133TA	DIODE	[M]
D613	RVD1SS133TA	DIODE	[M]
D614	RVD1SS133TA	DIODE	[M]
D615	RVD1SS133TA	DIODE	[M]
D616	RVD1SS133TA	DIODE	[M]
D617	RVD1SS133TA	DIODE	[M]
D618	MTZJ10CTA	DIODE ⚠	[M]GC
D618	MTZJ8R2CTA	DIODE ⚠	[M]GK GN
D619	RVD1SS133TA	DIODE	[M]
D620	MTZJ10CTA	DIODE	[M]
D651	RK306LFU1	DIODE	[M]
D652	RK306LFU1	DIODE	[M]
D655	RVD1SS133TA	DIODE	[M]
D667	RVD1SS133TA	DIODE	[M]
D668	MTZJ10CTA	DIODE	[M]GC
D668	MTZJ8R2CTA	DIODE	[M]GK GN
D701	1N5402BM21	DIODE	[M] ⚠
D702	1N5402BM21	DIODE	[M] ⚠
D703	1N5402BM21	DIODE	[M] ⚠
D704	1N5402BM21	DIODE	[M] ⚠
D705	MTZJ6R2BTA	DIODE	[M] ⚠
D707	MTZJ30DTA	DIODE	[M] ⚠
D708	MTZJ15CTA	DIODE	[M] ⚠
D721	1N5402BM21	DIODE	[M] ⚠
D722	1N5402BM21	DIODE	[M] ⚠
D723	1N5402BM21	DIODE	[M] ⚠
D724	1N5402BM21	DIODE	[M] ⚠
D725	1N5402BM21	DIODE	[M] ⚠
D726	1N5402BM21	DIODE	[M] ⚠
D727	1N5402BM21	DIODE	[M] ⚠
D728	1N5402BM21	DIODE	[M] ⚠
D751	1SR35200TB	DIODE	[M] ⚠
D752	1SR35200TB	DIODE	[M] ⚠
D753	1SR35200TB	DIODE	[M] ⚠
D754	1SR35200TB	DIODE	[M] ⚠
D755	RVD1SS133TA	DIODE	[M] ⚠
D756	MTZJ6R8BTA	DIODE	[M] ⚠
D771	MA700ATA	DIODE	[M]
D772	MA700ATA	DIODE	[M]
D773	MTZJ10CTA	DIODE	[M]
D774	RVD1SS133TA	DIODE	[M]
D781	MA700ATA	DIODE	[M]
D782	MA700ATA	DIODE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
D901	1SS291TA	DIODE	[M]
D903	MTZJ4R7BTA	DIODE	[M]
D907	MA167ATA	DIODE	[M]
D910	MA167ATA	DIODE	[M] ⚠
D921	RVD1SS133TA	DIODE	[M]
D922	RVD1SS133TA	DIODE	[M]
D923	RVD1SS133TA	DIODE	[M]
D924	MTZJ3R9ATA	DIODE	[M]
D925	MTZJ3R0BTA	DIODE	[M]
D926	SLR325VCT31	DIODE	[M]
D928	SLR325YCT31	DIODE	[M]
D929	SLR325VCT31	DIODE	[M]
D930	SLR325VCT31	DIODE	[M]
D931	SLR325VCT31	DIODE	[M]
D932	SLR325VCT31	DIODE	[M]
D933	SLR325VCT31	DIODE	[M]
D934	SLR325VCT31	DIODE	[M]
D935	SLR325VCT31	DIODE	[M]
D936	SLR325VCT31	DIODE	[M]
D937	SLR325VCT31	DIODE	[M]
D938	SLR325VCT31	DIODE	[M]
D939	LNG995PFB0A1	DIODE	[M]
D940	LNG995PFB0A1	DIODE	[M]
D942	SLR325MCT31	DIODE	[M]
D1001	MTZJ10CTA	DIODE	[M] ⚠
D1002	MA700ATA	DIODE	[M]
		VARIABLE RESISTORS	
VR501	EUWM6A026B15	MOTOR VOLUME	[M]
VR502	EWC0YA016G15	VR, BALANCE	[M]
VR503	EWCY9A025A15	VR, SUBWOOFER	[M]
VR511	EWC1XA016C15	VR, TONE CONTROL	[M]
VR512	EWC1XA016C15	VR, TONE CONTROL	[M]
VR513	EWC1XA016B14	VR, BI-AMP BALANCE	[M]
VR514	EWC2SA016B54	VR, SW CUTOFF	[M]
VR901	EVQVBHFK112B	VR, BALANCE CONTROL	[M]
		SWITCHES	
S301	RSP2D009-J	SW, VCR2/TV	[M]
S701	ESD26840A	SW, VOLT ADJUSTMENT	[M]GC⚠
S946	EVQ21405R	SW, POWER	[M]
S951	EVQ21405R	SW, FM BAND	[M]
S952	EVQ21405R	SW, TUNE DOWN	[M]
S953	EVQ21405R	SW, TUNE UP	[M]
S955	EVQ21405R	SW, MEMORY	[M]
S956	EVQ21405R	SW, RESET	[M]

Ref No.	Part No.	Part Name & Description	Remarks
S958	EVQ21405R	SW, TIMER (HELP)	[M]
S970	EVQ21405R	SE, SEARCH	[M]
S971	EVQ21405R	SW, EON	[M]
S972	EVQ21405R	SW, PTY +	[M]
S973	EVQ21405R	SW, PTY -	[M]
S974	EVQ21405R	SW, DISP.MODE	[M]
S976	EVQ21405R	SW, 6CH	[M]
S980	EVQ21405R	SW, SP_A	[M]
S981	EVQ21405R	SW, SP_B	[M]
S982	EVQ21405R	SW, LOUD	[M]
S983	EVQ21405R	SW, S.OFF/ON	[M]
S984	EVQ21405R	SW, DPL MODE	[M]
S985	EVQ21405R	SW, C_MODE	[M]
S986	EVQ21405R	SW, DELAY	[M]
S988	EVQ21405R	SW, BI_WIRE	[M]
		CONNECTORS	
CN101	RJU057W007	7P CONNECTOR	[M]
CN102	RJU057W007	7P CONNECTOR	[M]
CN352	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN354	RJS1A6606T1	6P STAPING CONNECTOR	[M]
CN401	RJU100W07	7P CONNECTOR	[M]
CN402	RJU100W07	7P CONNECTOR	[M]
CN403	RJU100W07	7P CONNECTOR	[M]
CN404	RJU100W07	7P CONNECTOR	[M]
CN453A	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN453B	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN501	RJU100W04	4P CONNECTOR	[M]
CN601	RJS9T6ZA	CONNECTOR	[M]
CN751	SJS305-1	3P CONNECTOR	[M]GK GN
CN751	SJS702-1	SOCKET	[M]GC
CN752	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN901A	RJS1A6827	FFC CONNECTOR	[M]
CN901B	RJS1A6227-1	FPC CONNECTOR	[M]
CN902A	RJS1A6606T1	6P STAPING CONNECTOR	[M]
CN902B	RJS1A6606T1	6P STAPING CONNECTOR	[M]
CN903A	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN903B	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN904A	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN904B	RJS1A6604T1	4P TAPING CONNECTOR	[M]
CN905	RJU003K010M1	10P B/B CONNECTOR	[M]
CN906	RJU003K008M1	BOAD IN CONNECTOR	[M]
CN907	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN908	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN909A	RJS1A6606T1	6P STAPING CONNECTOR	[M]
CN909B	RJS1A6603T1	3P TAPING CONNECTOR	[M]
CN1001	RJU100W07	7P CONNECTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks
CN1002	RJU100W07	7P CONNECTOR	[M]
CN1003	RJU100W07	7P CONNECTOR	[M]
CP101	RJT057W007-1	7P CONNECTOR	[M]
CP102	RJT057W007-1	7P CONNECTOR	[M]
CP351	RJP5G9YA	5P CONNECTOR	[M]
CP353	RJP3G9YA	CONNECTOR	[M]
CP401	RJT100W07	7P CONNECTOR	[M]
CP402	RJT100W07	7P CONNECTOR	[M]
CP403	RJT100W07	7P CONNECTOR	[M]
CP404	RJT100W07	7P CONNECTOR	[M]
CP451	RJP9G4YA	CONNECTOR	[M]
CP452	SJT3213	FAN CONNECTOR	[M]
CP454	RJP6G9YA	6P CONNECTOR	[M]
CP501	RJT100W04	4P CONNECTOR	[M]
CP771	SJT3213	FAN CONNECTOR	[M]
CP905	RJT003K010M1	10P CONNECTOR	[M]
CP906	RJT003K008M1	8P CONNECTOR	[M]
CP1001	RJT100W07	7P CONNECTOR	[M]
CP1002	RJT100W07	7P CONNECTOR	[M]
CP1003	RJT100W07	7P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L101	ELESN1R0MA	CHOKE COIL	[M]
L103	ELEXTR47MA9	CHOKE COIL	[M]
L105	RLQZB822KT-D	TAPING COIL	[M]
L106	RLQZB822KT-D	TAPING COIL	[M]
L151	SLM1B10-1M	A.B. FILTER	[M]
L191	ELESNR56MA	CHOKE COIL	[M]
L501	RLQZP1R0KT-Y	AXIAL COIL	[M]
L502	RLQZP1R0KT-Y	AXIAL COIL	[M]
L602	RLQYR73MW-E	CHOKE COIL	[M]
L603	RLQYR73MW-E	CHOKE COIL	[M]
L604	RLQYR73MW-E	CHOKE COIL	[M]
L652	RLQYR73MW-E	CHOKE COIL	[M]
L653	RLQYR73MW-E	CHOKE COIL	[M]
L654	RLQYR73MW-E	CHOKE COIL	[M]
L701	SLQZ650MH49	AC LINE COIL ⚠	[M]GK GN
L751	RLQB101KTA-Y	CHOKE COIL	[M]
L901	RLQB101KTA-Y	CHOKE COIL	[M]
L1051	RLQB101KTA-Y	CHOKE COIL	[M]
T701	RTP1Q5B004-V	POWER TRANSFORMER ⚠	[M]GK GN
T701	RTP1Q5E019-V	POWER TRANSFORMER ⚠	[M]GC
T751	RTP1I5E006	POWER TRANSFORMER ⚠	[M]GK GN
T751	RTP1I5E007	SUB POWER TRANSFORME	[M]GC⚠

Ref No.	Part No.	Part Name & Description	Remarks
		COMPONENT COMBINATION	
Z101	RLA2Z002M-T	AM ANT. COIL	[M]
Z102	RLI2Z006M-T	AM IFT	[M]
Z120	ENV17290G1R	FM TUNER PACK	[M]GC GN
Z120	ENV17290G1Y	FM TUNER PACK	[M]GK
Z751	ERZV10V511CS	ZNR ⚠	[M]
Z891	RCD12042TE	REMOTE SENSOR	[M]
		CERAMIC FILTERS	
CF201	RLFFETNGD01L	CERAMIC CAPACITOR	[M]
CF202	RLFFETMGD01L	CERAMIC FILTER	[M]
CF901	RVBCST4R00MT	CERAMIC OSCILLATOR	[M]
		RELAY	
RL601	RSY0038-C	RELAY ⚠	[M]
RL602	RSY0038-C	RELAY ⚠	[M]
RL603	RSY0038-C	RELAY ⚠	[M]
RL604	RSY0038-C	RELAY ⚠	[M]
RL605	RSY0038-C	RELAY ⚠	[M]
RL751	RSY0019M-0	12V TV-5 RELAY ⚠	[M]
		OSCILLATORS	
X101	RSXZ456KM07M	CERAMIC OSCILLATOR	[M]
X102	RLFDGTD01I	FM REZONATOR	[M]
X103	SVQ49U722T-S	CRYSTAL 7.2MHZ	[M]GK
		DISPLAY TUBE	
FL901	RSL0256-F	FL	[M]
		FUSES	
F1	XBA2C31TB0	FUSE ⚠	[M]GK GN
F1	XBA2C63TB0	FUSE ⚠	[M]GC
F2	XBA2C31TB0	FUSE ⚠	[M]GC
F3	XBA2C63TB0	FUSE ⚠	[M]
F4	XBA2C63TB0	FUSE ⚠	[M]
		FUSE CLIPS	
FC701	RJR0169T	FUSE HOLDER	[M]
FC702	RJR0169T	FUSE HOLDER	[M]
FC703	RJR0169T	FUSE HOLDER	[M]GC
FC704	RJR0169T	FUSE HOLDER	[M]GC

Ref No.	Part No.	Part Name & Description	Remarks
FC705	RJR0169T	FUSE HOLDER	[M]
FC706	RJR0169T	FUSE HOLDER	[M]
FC707	RJR0169T	FUSE HOLDER	[M]
FC708	RJR0169T	FUSE HOLDER	[M]
		JACKS	
HP601	RJJ63TA01	JK, HP	[M]
JK101	RJH4202-1	JK, ANT TERMINAL	[M]
JK301	RJS1D1304	JK, S. TERMINAL	[M]
JK351	RJH3210N	JK, 2P RCA	[M]
JK352	SJFK5-2A	JK, VCR	[M]
JK353	SJF3069-12N	JK, LINE	[M]
JK354	SJF3069-9N	JK, LINE	[M]
JK355	SJF3069-13N	JK, LINE	[M]
JK401	SJF3068-7N	JK, RCA TERMINAL	[M]
JK402	SJF3069N	JK, LINE	[M]
JK403	SJF3069N	JK, LINE	[M]
JK404	SJF3069N	JK, LINE	[M]
JK406	SJF3068-7N	JK, RCA TERMINAL	[M]
JK601	RJH4802	JK, SPEAKER TERMINAL	[M]
JK602	RJH4802	JK, SPEAKER TERMINAL	[M]
JK794	SJS9231-1B	JK, SOCKET ⚠	[M]GK GN
JK795	SJS9231-1B	JK, SOCKET ⚠	[M]GC
		EARTH TERMINAL	
E401	SNE1004-2	EARTH TERMINAL	[M]
E601	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REE0857	WIRE	[M]GN GK
W1	REE0869	WIRE UNIT	[M]GC
W2	REE0858	WIRE	[M]GN GK
W2	REE0870	WIRE UNIT	[M]GC
W3	REE0871	WIRE UNIT	[M]GC
W4	REE0872	WIRE UNIT	[M]GC
W5	REE0873	WIRE UNIT	[M]GC
W6	REE0874	WIRE UNIT	[M]GC
W7	REE0875	WIRE UNIT	[M]GC
W8	REE0876	WIRE UNIT	[M]GC
W9	REE0877	WIRE UNIT	[M]GC
W10	REE0878	WIRE UNIT	[M]GC
W351	REX0918	WIRE	[M]
W352	RWJ1803100KQ	WIRE	[M]
W353	REX0917	WIRE	[M]
W354	RWJ1806200KQ	WIRE	[M]

Ref No.	Part No.	Part Name & Description	Remarks
W355	REZ1127	EARTH WIRE UNIT	[M]
W451	REX0919	WIRE	[M]
W452	REX0920	WIRE	[M]
W453	RWJ1807160KQ	WIRE	[M]
W454	REX0921	WIRE	[M]
W455	REZ1146	WIRE	[M]
W601	RWJ1809150KQ	WIRE	[M]
W602	RWJ1804150KK	4P WIRE	[M]
W701	RWJ1812220KK	12P WIRE	[M]
W752	RWJ1803290KQ	3P WIRE	[M]
W901	REE0866	WIRE	[M]
W902	RWJ1812300KQ	12P WIRE	[M]
W903	RWJ1808170KQ	WIRE	[M]
W904	RWJ1807170KQ	WIRE	[M]
W907	RWJ1803150KQ	WIRE	[M]
W908	RWJ1803150KQ	WIRE	[M]
W909	RWJ1809160KQ	WIRE	[M]

Ref No.	Part No.	Part Name & Description	Remarks

■ Resistors & Capacitors

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
• The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indication can be used for all areas.
• [M] in Remarks column indicates parts that are supplied by **MESA**.
• Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
• Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values & Remarks
	RESISTORS	
R103	ERDS2TJ101T	100 1/4W [M]
R104	ERDS2TJ102T	1K 1/4W [M]
R105	ERDS2TJ471T	470 1/4W [M]
R106	ERDS2TJ224T	220K 1/4W [M]
R107	ERDS2TJ471T	470 1/4W [M]
R110	ERDS2TJ102T	1K 1/4W [M]
R112	ERDS2TJ104T	100K 1/4W [M]
R113	ERDS2TJ103T	10K 1/4W [M]
R114	ERDS2TJ562T	5.6K 1/4W [M]
R115	ERDS2TJ561T	560 1/4W [M]
R116	ERDS2TJ102T	1K 1/4W [M]
R117	ERDS2TJ473T	47K 1/4W [M]
R118	ERDS2TJ562T	5.6K 1/4W [M]
R119	ERDS2TJ183T	18K 1/4W [M]
R120	ERDS2TJ473T	47K 1/4W [M]
R121	ERDS2TJ332T	3.3K 1/4W [M]
R122	ERDS2TJ272T	2.7K 1/4W [M]
R124	ERDS2TJ271T	270 1/4W [M]GK
R125	ERDS2TJ472T	4.7K 1/4W [M]
R126	ERDS2TJ472T	4.7K 1/4W [M]
R127	ERDS2TJ103T	10K 1/4W [M]
R128	ERDS2TJ820T	82 1/4W [M]
R129	ERDS2TJ473T	47K 1/4W [M]
R130	ERDS2TJ102T	1K 1/4W [M]
R131	ERDS2TJ102T	1K 1/4W [M]
R132	ERDS2TJ103T	10K 1/4W [M]
R133	ERDS2TJ102T	1K 1/4W [M]
R134	ERDS2TJ102T	1K 1/4W [M]
R135	ERDS2TJ102T	1K 1/4W [M]
R136	ERDS2TJ102T	1K 1/4W [M]
R137	ERDS2TJ102T	1K 1/4W [M]
R139	ERDS2TJ272T	2.7K 1/4W [M]
R140	ERDS2TJ272T	2.7K 1/4W [M]
R141	ERDS2TJ102T	1K 1/4W [M]
R142	ERDS2TJ102T	1K 1/4W [M]
R143	ERDS2TJ222T	2.2K 1/4W [M]
R144	ERDS2TJ222T	2.2K 1/4W [M]
R145	ERDS2TJ102T	1K 1/4W [M]GK
R145	ERDS2TJ821T	820 1/4W [M]GC GN
R146	ERDS2TJ102T	1K 1/4W [M]GK
R146	ERDS2TJ821T	820 1/4W [M]GC GN
R147	ERDS2TJ474T	470K 1/4W [M]
R148	ERDS2TJ474T	470K 1/4W [M]
R149	ERDS2TJ680T	68 1/4W [M]
R171	ERDS2TJ102T	1K 1/4W [M]
R172	ERDS2TJ102T	1K 1/4W [M]
R173	ERDS2TJ471T	470 1/4W [M]
R175	ERDS2TJ102T	1K 1/4W [M]
R176	ERDS2TJ391T	390 1/4W [M]
R181	ERDS2TJ332T	3.3K 1/4W [M]
R301	ERDS2TJ750T	75 1/4W [M]
R302	ERDS2TJ104T	100K 1/4W [M]
R303	ERDS2TJ103T	10K 1/4W [M]
R304	ERDS2TJ750T	75 1/4W [M]
R305	ERDS2TJ750T	75 1/4W [M]
R306	ERDS2TJ104T	100K 1/4W [M]
R307	ERDS2TJ103T	10K 1/4W [M]
R308	ERDS2TJ750T	75 1/4W [M]
R309	ERDS2TJ750T	75 1/4W [M]
R310	ERDS2TJ750T	75 1/4W [M]
R311	ERDS2TJ750T	75 1/4W [M]
R312	ERDS2TJ750T	75 1/4W [M]
R313	ERDS2TJ750T	75 1/4W [M]
R314	ERDS2TJ750T	75 1/4W [M]
R315	ERDS2TJ102T	1K 1/4W [M]
R316	ERDS2TJ102T	1K 1/4W [M]
R351	ERDS2TJ750T	75 1/4W [M]
R352	ERDS2TJ750T	75 1/4W [M]
R353	ERDS2TJ103T	10K 1/4W [M]
R354	ERDS2TJ750T	75 1/4W M]
R355	ERDS2TJ103T	10K 1/4W [M]
R356	ERDS2TJ750T	75 1/4W [M]
R357	ERDS2TJ103T	10K 1/4W [M]
R358	ERDS2TJ750T	75 1/4W [M]
R359	ERDS2TJ103T	10K 1/4W [M]
R360	ERDS2TJ750T	75 1/4W [M]
R361	ERDS2TJ750T	75 1/4W [M]
R362	ERDS2TJ750T	75 1/4W [M]
R363	ERDS2TJ102T	1K 1/4W [M]
R364	ERDS2TJ102T	1K 1/4W [M]
R365	ERDS2TJ102T	1K 1/4W [M]
R367	ERDS2TJ182T	1.8K 1/4W [M]
R368	ERDS2TJ182T	1.8K 1/4W [M]
R369	ERD2FCVG220T	22 1/4W [M]
R370	ERD2FCVG220T	22 1/4W [M]
R377	ERDS2TJ273T	27K 1/4W [M]
R379	ERDS2TJ273T	27K 1/4W [M]
R380	ERDS2TJ273T	27K 1/4W [M]
R381	ERDS2TJ682T	6.8K 1/4W [M]
R382	ERDS2TJ104T	100K 1/4W [M]
R383	ERDS2TJ473T	47K 1/4W [M]
R384	ERDS2TJ104T	100K 1/4W [M]
R385	ERDS2TJ682T	6.8K 1/4W [M]
R386	ERDS2TJ682T	6.8K 1/4W [M]
R387	ERDS2TJ224T	220K 1/4W [M]
R388	ERDS2TJ224T	220K 1/4W [M]
R389	ERDS2TJ104T	100K 1/4W [M]
R390	ERDS2TJ104T	100K 1/4W [M]
R391	ERDS2TJ104T	100K 1/4W [M]
R392	ERDS2TJ104T	100K 1/4W [M]
R401	ERDS2TJ102T	1K 1/4W [M]
R402	ERDS2TJ102T	1K 1/4W [M]
R405	ERDS2TJ102T	1K 1/4W [M]
R406	ERDS2TJ102T	1K 1/4W [M]
R407	ERDS2TJ102T	1K 1/4W [M]
R408	ERDS2TJ102T	1K 1/4W [M]
R409	ERDS2TJ102T	1K 1/4W [M]
R410	ERDS2TJ102T	1K 1/4W [M]
R411	ERDS2TJ102T	1K 1/4W [M]
R412	ERDS2TJ102T	1K 1/4W [M]
R413	ERDS2TJ102T	1K 1/4W [M]
R414	ERDS2TJ102T	1K 1/4W [M]
R415	ERDS2TJ102T	1K 1/4W [M]
R416	ERDS2TJ102T	1K 1/4W [M]
R417	ERDS2TJ473T	47K 1/4W [M]
R418	ERDS2TJ473T	47K 1/4W [M]
R419	ERDS2TJ104T	100K 1/4W [M]
R420	ERDS2TJ104T	100K 1/4W [M]
R421	ERDS2TJ104T	100K 1/4W [M]
R422	ERDS2TJ104T	100K 1/4W [M]
R423	ERDS2TJ102T	1K 1/4W [M]
R424	ERDS2TJ102T	1K 1/4W [M]
R425	ERDS2TJ103T	10K 1/4W [M]
R426	ERDS2TJ103T	10K 1/4W [M]
R427	ERDS2TJ103T	10K 1/4W [M]
R428	ERDS2TJ332T	3.3K 1/4W [M]
R429	ERDS2TJ102T	1K 1/4W [M]
R430	ERDS2TJ102T	1K 1/4W [M]
R431	ERDS2TJ224T	220K 1/4W [M]
R432	ERDS2TJ224T	220K 1/4W [M]
R433	ERDS2TJ102T	1K 1/4W [M]
R434	ERDS2TJ102T	1K 1/4W [M]
R435	ERDS2TJ102T	1K 1/4W [M]
R436	ERDS2TJ102T	1K 1/4W [M]
R437	ERDS2TJ473T	47K 1/4W [M]
R440	ERDS1FVJ560T ⚠	56 1/2W [M]
R441	ERDS2TJ473T	47K 1/4W [M]
R442	ERDS2TJ473T	47K 1/4W [M]
R443	ERDS1FVJ560T ⚠	56 1/2W [M]
R447	ERDS2TJ102T	1K 1/4W [M]
R448	ERDS2TJ102T	1K 1/4W [M]
R449	ERDS2TJ102T	1K 1/4W [M]
R451	ERDS2TJ224T	220K 1/4W [M]
R452	ERDS2TJ224T	220K 1/4W [M]
R453	ERDS2TJ391T	390 1/4W [M]
R454	ERDS2TJ391T	390 1/4W [M]
R455	ERDS2TJ563T	56K 1/4W [M]
R456	ERDS2TJ563T	56K 1/4W [M]
R457	ERDS2TJ271T	270 1/4W [M]
R458	ERDS2TJ271T	270 1/4W [M]
R459	ERDS2TJ680T	68 1/4W [M]
R460	ERDS2TJ680T	68 1/4W [M]
R461	ERDS2TJ184T	180K 1/4W [M]
R462	ERDS2TJ184T	180K 1/4W [M]
R463	ERDS2TJ123T	12K 1/4W [M]
R464	ERDS2TJ123T	12K 1/4W [M]
R465	ERDS2TJ563T	56K 1/4W [M]
R466	ERDS2TJ563T	56K 1/4W [M]
R469	ERDS2TJ102T	1K 1/4W [M]
R470	ERDS2TJ102T	1K 1/4W [M]
R472	ERDS2TJ103T	10K 1/4W [M]
R473	ERDS2TJ102T	1K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R474	ERDS2TJ102T	1K 1/4W [M]
R475	ERDS2TJ103T	10K 1/4W [M]
R476	ERDS2TJ103T	10K 1/4W [M]
R477	ERDS2TJ103T	10K 1/4W [M]
R478	ERDS2TJ104T	100K 1/4W [M]
R491	ERDS2TJ102T	1K 1/4W [M]
R492	ERDS2TJ102T	1K 1/4W [M]
R493	ERDS2TJ102T	1K 1/4W [M]
R494	ERDS2TJ102T	1K 1/4W [M]
R497	ERDS2TJ104T	100K 1/4W [M]
R498	ERDS2TJ102T	1K 1/4W [M]
R501	ERDS2TJ222T	2.2K 1/4W [M]
R502	ERDS2TJ222T	2.2K 1/4W [M]
R503	ERDS2TJ103T	10K 1/4W [M]
R504	ERDS2TJ103T	10K 1/4W [M]
R505	ERDS2TJ103T	10K 1/4W [M]
R506	ERDS2TJ103T	10K 1/4W [M]
R507	ERDS2TJ153T	15K 1/4W [M]
R508	ERDS1FVJ2R2T ⚠	2.2 1/2W [M]
R509	ERDS2TJ103T	10K 1/4W [M]
R510	ERDS2TJ103T	10K 1/4W [M]
R511	ERDS2TJ471T	470 1/4W [M]
R512	ERDS2TJ471T	470 1/4W [M]
R513	ERDS2TJ474T	470K 1/4W [M]
R514	ERDS2TJ474T	470K 1/4W [M]
R515	ERDS2TJ474T	470K 1/4W [M]
R516	ERDS2TJ474T	470K 1/4W [M]
R519	ERDS2TJ103T	10K 1/4W [M]
R520	ERDS2TJ103T	10K 1/4W [M]
R521	ERDS2TJ273T	27K 1/4W [M]
R522	ERDS2TJ273T	27K 1/4W [M]
R523	ERDS2TJ472T	4.7K 1/4W [M]
R524	ERDS2TJ472T	4.7K 1/4W [M]
R525	ERDS2TJ472T	4.7K 1/4W [M]
R526	ERDS2TJ472T	4.7K 1/4W [M]
R527	ERDS2TJ152T	1.5K 1/4W [M]
R528	ERDS2TJ152T	1.5K 1/4W [M]
R529	ERDS2TJ563T	56K 1/4W [M]
R530	ERDS2TJ563T	56K 1/4W [M]
R531	ERDS2TJ682T	6.8K 1/4W [M]
R532	ERDS2TJ682T	6.8K 1/4W [M]
R533	ERDS2TJ822T	8.2K 1/4W [M]
R534	ERDS2TJ822T	8.2K 1/4W [M]
R535	ERDS2TJ123T	12K 1/4W [M]
R536	ERDS2TJ123T	12K 1/4W [M]
R537	ERDS2TJ473T	47K 1/4W [M]
R538	ERDS2TJ473T	47K 1/4W [M]
R539	ERDS2TJ332T	3.3K 1/4W [M]
R540	ERDS2TJ332T	3.3K 1/4W [M]
R541	ERDS2TJ104T	100K 1/4W [M]
R542	ERDS2TJ104T	100K 1/4W [M]
R543	ERDS2TJ102T	1K 1/4W [M]
R544	ERDS2TJ102T	1K 1/4W [M]
R546	ERDS2TJ223T	22K 1/4W [M]
R547	ERDS2TJ684T	680K 1/4W [M]
R549	ERDS2TJ104T	100K 1/4W [M]
R550	ERDS2TJ103T	10K 1/4W [M]
R551	ERDS2TJ102T	1K 1/4W [M]
R552	ERDS2TJ102T	1K 1/4W [M]
R553	ERDS2TJ104T	100K 1/4W [M]
R554	ERDS2TJ104T	100K 1/4W [M]
R555	ERDS2TJ822T	8.2K 1/4W [M]
R556	ERDS2TJ822T	8.2K 1/4W [M]
R557	ERDS2TJ391T	390 1/4W [M]
R558	ERDS2TJ391T	390 1/4W [M]
R561	ERDS2TJ102T	1K 1/4W [M]
R562	ERDS2TJ102T	1K 1/4W [M]
R563	ERDS2TJ104T	100K 1/4W [M]
R564	ERDS2TJ104T	100K 1/4W [M]
R565	ERDS2TJ822T	8.2K 1/4W [M]
R566	ERDS2TJ154T	150K 1/4W [M]
R567	ERDS2TJ331T	330 1/4W [M]
R568	ERDS2TJ102T	1K 1/4W [M]
R569	ERDS2TJ333T	33K 1/4W [M]
R571	ERDS2TJ223T	22K 1/4W [M]
R572	ERDS2TJ223T	22K 1/4W [M]
R573	ERDS2TJ223T	22K 1/4W [M]
R574	ERDS2TJ223T	22K 1/4W [M]
R575	ERDS2TJ223T	22K 1/4W [M]
R576	ERDS2TJ223T	22K 1/4W [M]
R577	ERDS2TJ223T	22K 1/4W [M]
R578	ERDS2TJ223T	22K 1/4W [M]
R579	ERDS2TJ822T	8.2K 1/4W [M]
R580	ERDS2TJ822T	8.2K 1/4W [M]
R581	ERDS2TJ223T	22K 1/4W [M]
R582	ERDS2TJ223T	22K 1/4W [M]
R583	ERDS2TJ272T	2.7K 1/4W [M]
R584	ERDS2TJ272T	2.7K 1/4W [M]
R585	ERDS2TJ473T	47K 1/4W [M]
R586	ERDS2TJ473T	47K 1/4W [M]
R587	ERDS2TJ102T	1K 1/4W [M]
R588	ERDS2TJ102T	1K 1/4W [M]
R589	ERDS2TJ223T	22K 1/4W [M]
R590	ERDS2TJ102T	1K 1/4W [M]
R591	ERDS2TJ223T	22K 1/4W [M]
R592	ERDS2TJ684T	680K 1/4W [M]
R601	ERDS2TJ472T	4.7K 1/4W [M]
R602	ERDS2TJ472T	4.7K 1/4W [M]
R603	ERDS2TJ182T	1.8K 1/4W [M]
R604	ERDS2TJ182T	1.8K 1/4W [M]
R605	ERDS2TJ221T	220 1/4W [M]
R606	ERDS2TJ221T	220 1/4W [M]
R607	ERDS2TJ563T	56K 1/4W [M]
R608	ERDS2TJ563T	56K 1/4W [M]
R609	ERDS2TJ470T	47 1/4W [M]
R610	ERDS2TJ470T	47 1/4W [M]
R611	ERDS1FVJ100T ⚠	10 1/2W [M]
R612	ERDS1FVJ100T ⚠	10 1/2W [M]
R613	ERDS2TJ222T	2.2K 1/4W [M]
R614	ERDS2TJ222T	2.2K 1/4W [M]
R615	ERDS2TJ681T	680 1/4W [M]
R616	ERD2FCVG470T	47 1/4W [M]
R617	ERD2FCVG470T	47 1/4W [M]
R618	ERD2FCVG470T	47 1/4W [M]
R619	ERD2FCVG470T	47 1/4W [M]
R620	ERD2FCVG470T	47 1/4W [M]
R621	ERDS2TJ682T	6.8K 1/4W [M]
R622	ERDS2TJ682T	6.8K 1/4W [M]
R623	ERDS2TJ682T	6.8K 1/4W [M]
R624	ERD25FVJ4R7T	4.7 1/4W [M]
R625	ERG1SJ101E ⚠	100 1W [M]
R626	ERG1SJ101E ⚠	100 1W [M]
R627	ERG1SJ101E ⚠	100 1W [M]
R628	ERG1SJ101E ⚠	100 1W [M]
R629	ERDS2TJ102T	1K 1/4W [M]
R630	ERDS2TJ124T	120K 1/4W [M]
R631	ERDS2TJ154T	150K 1/4W [M]
R632	ERDS2TJ184T	180K 1/4W [M]
R633	ERDS2TJ473T	47K 1/4W [M]
R634	ERDS2TJ474T	470K 1/4W [M]
R635	ERDS2TJ103T	10K 1/4W [M]
R636	ERDS2TJ473T	47K 1/4W [M]
R637	ERDS2TJ154T	150K 1/4W [M]
R638	ERDS2TJ154T	150K 1/4W [M]
R639	ERDS2TJ104T	100K 1/4W [M]
R640	ERDS2TJ682T	6.8K 1/4W [M]
R641	ERDS2TJ472T	4.7K 1/4W [M]
R642	ERDS2TJ182T	1.8K 1/4W [M]
R643	ERDS2TJ563T	56K 1/4W [M]
R644	ERDS1FVJ100T ⚠	10 1/2W [M]
R645	ERDS2TJ470T	47 1/4W [M]
R647	ERDS2TJ221T	220 1/4W [M]
R648	ERDS2TJ122T	1.2K 1/4W [M]
R651	ERDS2TJ472T	4.7K 1/4W [M]
R652	ERDS2TJ472T	4.7K 1/4W [M]
R653	ERDS2TJ182T	1.8K 1/4W [M]
R654	ERDS2TJ182T	1.8K 1/4W [M]
R655	ERDS2TJ221T	220 1/4W [M]
R656	ERDS2TJ221T	220 1/4W [M]
R657	ERDS2TJ563T	56K 1/4W [M]
R658	ERDS2TJ563T	56K 1/4W [M]
R659	ERDS2TJ470T	47 1/4W [M]
R660	ERDS2TJ470T	47 1/4W [M]
R661	ERDS1FVJ100T ⚠	10 1/2W [M]
R662	ERDS1FVJ100T ⚠	10 1/2W [M]
R663	ERDS2TJ104T	100K 1/4W [M]
R664	ERDS2TJ104T	100K 1/4W [M]
R672	ERDS2TJ223T	22K 1/4W [M]
R673	ERDS2TJ223T	22K 1/4W [M]
R674	ERD25FVJ4R7T	4.7 1/4W [M]
R675	ERDS2TJ222T	2.2K 1/4W [M]
R676	ERDS2TJ222T	2.2K 1/4W [M]
R677	ERDS2TJ222T	2.2K 1/4W [M]
R678	ERDS2TJ222T	2.2K 1/4W [M]
R679	ERDS2TJ102T	1K 1/4W [M]
R680	ERDS2TJ124T	120K 1/4W [M]
R681	ERDS2TJ154T	150K 1/4W [M]
R682	ERDS2TJ184T	180K 1/4W [M]
R683	ERDS2TJ473T	47K 1/4W [M]
R684	ERDS2TJ474T	470K 1/4W [M]
R685	ERDS2TJ103T	10K 1/4W [M]
R686	ERDS2TJ473T	47K 1/4W [M]
R687	ERDS2TJ154T	150K 1/4W [M]
R688	ERDS2TJ154T	150K 1/4W [M]
R689	ERDS2TJ221T	220 1/4W [M]
R690	ERDS2TJ221T	220 1/4W [M]
R691	ERDS2TJ472T	4.7K 1/4W [M]
R692	ERDS2TJ182T	1.8K 1/4W [M]
R693	ERDS2TJ563T	56K 1/4W [M]
R694	ERDS1FVJ100T ⚠	10 1/2W [M]
R695	ERDS2TJ470T	47 1/4W [M]
R697	ERDS2TJ221T	220 1/4W [M]
R698	ERDS2TJ222T	2.2K 1/4W [M]
R699	ERDS2TJ222T	2.2K 1/4W [M]
R703	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R704	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]
R705	ERDS2TJ472T	4.7K 1/4W [M]
R706	ERDS2TJ102T	1K 1/4W [M]
R707	ERD25FVJ221T	220 1/4W [M]
R708	ERDS2TJ152T	1.5K 1/4W [M]
R709	ERDS2TJ1R5T	1.5 1/4W [M]
R710	ERDS2TJ1R5T	1.5 1/4W [M]

Ref No.	Part No.	Values & Remarks
R711	ERDS2TJ752T	7.5K 1/4W [M]
R712	ERDS2TJ682T	6.8K 1/4W [M]
R713	ERDS2TJ390T	39 1/4W [M]
R714	ERDS2TJ390T	39 1/4W [M]
R721	ERDS1FVJ221T ⚠	220 1/2W [M]
R722	ERDS2TJ682T	6.8K 1/4W [M]
R723	ERDS1FVJ100T ⚠	10 1/2W [M]GK GN
R723	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]GC
R724	ERDS1FVJ100T ⚠	10 1/2W [M]GK GN
R724	ERDS1FVJ3R9T ⚠	3.9 1/2W [M]GC
R725	ERDS2TJ152T	1.5K 1/4W [M]
R726	ERD25FVJ151T	150 1/4W [M]
R727	ERD25FVJ151T	150 1/4W [M]
R728	ERDS2TJ274T	270K 1/4W [M]
R729	ERDS2TJ274T	270K 1/4W [M]
R730	ERDS1FVJ1R0T ⚠	1 1/2W [M]
R754	ERDS2TJ102T	1K 1/4W [M]
R756	ERDS2TJ222T	2.2K 1/4W [M]
R771	ERDS2TJ104T	100K 1/4W [M]
R773	ERDS2TJ103T	10K 1/4W [M]
R774	ERDS2TJ155T	1.5M 1/4W [M]
R775	ERDS2TJ331T	330 1/4W [M]
R776	ERDS1FVJ150T ⚠	15 1/2W [M]
R777	ERDS2TJ154T	150K 1/4W [M]
R778	ERDS2TJ472T	4.7K 1/4W [M]
R779	ERDS2TJ103T	10K 1/4W [M]
R781	ERDS2TJ222T	2.2K 1/4W [M]
R782	ERDS2TJ390T	39 1/4W [M]
R784	ERDS2TJ154T	150K 1/4W [M]
R786	ERDS2TJ154T	150K 1/4W [M]
R791	ERDS2TJ123T	12K 1/4W [M]
R792	ERDS2TJ123T	12K 1/4W [M]
R793	ERDS2TJ123T	12K 1/4W [M]
R794	ERDS2TJ123T	12K 1/4W [M]
R795	ERDS2TJ223T	22K 1/4W [M]
R796	ERDS2TJ223T	22K 1/4W [M]
R797	ERDS2TJ223T	22K 1/4W [M]
R798	ERDS2TJ223T	22K 1/4W [M]
R799	ERDS2TJ682T	6.8K 1/4W [M]
R891	ERDS2TJ103T	10K 1/4W [M]
R892	ERDS2TJ103T	10K 1/4W [M]
R893	ERDS2TJ103T	10K 1/4W [M]
R894	ERDS2TJ103T	10K 1/4W [M]
R900	ERDS2TJ472T	4.7K 1/4W [M]
R901	ERDS2TJ102T	1K 1/4W [M]
R904	ERDS2TJ271T	270 1/4W [M]
R906	ERDS2TJ222T	2.2K 1/4W [M]
R907	ERDS2TJ104T	100K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R908	ERDS2TJ104T	100K 1/4W [M]
R909	ERDS2TJ104T	100K 1/4W [M]
R910	ERDS2TJ102T	1K 1/4W [M]
R911	ERDS2TJ104T	100K 1/4W [M]
R913	ERDS2TJ103T	10K 1/4W [M]
R915	ERDS2TJ222T	2.2K 1/4W [M]
R917	ERDS2TJ103T	10K 1/4W [M]
R920	ERDS2TJ271T	270 1/4W [M]
R921	ERDS2TJ121T	120 1/4W [M]
R922	ERDS2TJ472T	4.7K 1/4W [M]
R926	ERDS2TJ181T	180 1/4W [M]
R927	ERDS2TJ221T	220 1/4W [M]
R928	ERDS2TJ271T	270 1/4W [M]
R929	ERDS2TJ101T	100 1/4W [M]
R930	ERDS2TJ101T	100 1/4W [M]
R931	ERDS2TJ271T	270 1/4W [M]
R932	ERDS2TJ271T	270 1/4W [M]
R933	ERDS2TJ271T	270 1/4W [M]
R934	ERDS2TJ271T	270 1/4W [M]
R935	ERDS2TJ271T	270 1/4W [M]
R936	ERDS2TJ271T	270 1/4W [M]
R937	ERDS2TJ271T	270 1/4W [M]
R938	ERDS2TJ271T	270 1/4W [M]
R939	ERDS2TJ151T	150 1/4W [M]
R940	ERDS2TJ222T	2.2K 1/4W [M]
R941	ERDS2TJ473T	47K 1/4W [M]
R942	ERDS2TJ181T	180 1/4W [M]
R943	ERDS2TJ102T	1K 1/4W [M]
R944	ERDS2TJ104T	100K 1/4W [M]
R945	ERDS2TJ104T	100K 1/4W [M]
R946	ERDS2TJ103T	10K 1/4W [M]
R947	ERDS2TJ103T	10K 1/4W [M]
R948	ERDS2TJ103T	10K 1/4W [M]
R949	ERDS2TJ103T	10K 1/4W [M]
R950	ERDS2TJ102T	1K 1/4W [M]
R951	ERDS2TJ122T	1.2K 1/4W [M]
R952	ERDS2TJ152T	1.5K 1/4W [M]
R953	ERDS2TJ182T	1.8K 1/4W [M]
R954	ERDS2TJ222T	2.2K 1/4W [M]
R955	ERDS2TJ332T	3.3K 1/4W [M]
R956	ERDS2TJ472T	4.7K 1/4W [M]
R957	ERDS2TJ682T	6.8K 1/4W [M]
R958	ERDS2TJ123T	12K 1/4W [M]
R959	ERDS2TJ103T	10K 1/4W [M]
R960	ERDS2TJ332T	3.3K 1/4W [M]
R961	ERDS2TJ332T	3.3K 1/4W [M]
R962	ERDS2TJ104T	100K 1/4W [M]
R963	ERDS2TJ105T	1M 1/4W [M]

Ref No.	Part No.	Values & Remarks
R964	ERDS2TJ105T	1M 1/4W [M]
R970	ERDS2TJ102T	1K 1/4W [M]
R971	ERDS2TJ122T	1.2K 1/4W [M]
R972	ERDS2TJ152T	1.5K 1/4W [M]
R973	ERDS2TJ182T	1.8K 1/4W [M]
R974	ERDS2TJ222T	2.2K 1/4W [M]
R980	ERDS2TJ102T	1K 1/4W [M]
R981	ERDS2TJ122T	1.2K 1/4W [M]
R982	ERDS2TJ152T	1.5K 1/4W [M]
R983	ERDS2TJ182T	1.8K 1/4W [M]
R984	ERDS2TJ222T	2.2K 1/4W [M]
R985	ERDS2TJ332T	3.3K 1/4W [M]
R986	ERDS2TJ472T	4.7K 1/4W [M]
R987	ERDS2TJ682T	6.8K 1/4W [M]
R990	ERDS2TJ153T	15K 1/4W [M]
R991	ERDS2TJ104T	100K 1/4W [M]
R992	ERDS2TJ104T	100K 1/4W [M]
R997	ERDS2TJ101T	100 1/4W [M]
R998	ERDS2TJ101T	100 1/4W [M]
R1001	ERDS2TJ102T	1K 1/4W [M]
R1002	ERDS2TJ102T	1K 1/4W [M]
R1003	ERDS2TJ102T	1K 1/4W [M]
R1004	ERDS2TJ102T	1K 1/4W [M]
R1005	ERDS2TJ203T	20K 1/4W [M]
R1007	ERDS2TJ473T	47K 1/4W [M]
R1008	ERDS2TJ473T	47K 1/4W [M]
R1009	ERDS2TJ332T	3.3K 1/4W [M]
R1010	ERDS2TJ332T	3.3K 1/4W [M]
R1011	ERDS2TJ332T	3.3K 1/4W [M]
R1012	ERDS2TJ102T	1K 1/4W [M]
R1013	ERDS2TJ103T	10K 1/4W [M]
R1014	ERDS2TJ104T	100K 1/4W [M]
R1015	ERD2FCVJ4R7T	4.7 1/4W [M]
R1051	ERDS2TJ393T	39K 1/4W [M]
R1052	ERDS2TJ105T	1M 1/4W [M]
R1053	ERDS2TJ102T	1K 1/4W [M]
R1055	ERDS2TJ224T	220K 1/4W [M]
R1056	ERDS2TJ153T	15K 1/4W [M]
R1061	ERDS2TJ222T	2.2K 1/4W [M]
R1062	ERDS2TJ273T	27K 1/4W [M]
R1063	ERDS2TJ332T	3.3K 1/4W [M]
R1151	ERDS2TJ473T	47K 1/4W [M]
R1152	ERDS2TJ473T	47K 1/4W [M]
R1154	ERDS2TJ183T	18K 1/4W [M]
R1155	ERDS2TJ103T	10K 1/4W [M]
R1156	ERDS2TJ103T	10K 1/4W [M]
R1158	ERDS2TJ104T	100K 1/4W [M]
R1160	ERDS2TJ104T	100K 1/4W [M]

Ref No.	Part No.	Values & Remarks
R1681	ERDS2TJ270T	27 1/4W [M]
R1682	ERDS2TJ270T	27 1/4W [M]
R1683	ERDS2TJ270T	27 1/4W [M]
R1684	ERDS2TJ270T	27 1/4W [M]
R1685	ERDS2TJ270T	27 1/4W [M]
R1686	ERDS2TJ270T	27 1/4W [M]
R1687	ERDS2TJ270T	27 1/4W [M]
R1688	ERDS2TJ270T	27 1/4W [M]
R1689	ERDS2TJ270T	27 1/4W [M]
R1690	ERDS2TJ270T	27 1/4W [M]
R1691	ERDS2TJ270T	27 1/4W [M]
R1692	ERDS2TJ270T	27 1/4W [M]
R1693	ERDS2TJ270T	27 1/4W [M]
R1694	ERDS2TJ270T	27 1/4W [M]
R1695	ERDS2TJ102T	1K 1/4W [M]
R1696	ERDS2TJ102T	1K 1/4W [M]
R1699	ERDS2TJ332T	3.3K 1/4W [M]
	CAPACITORS	
C101	ECBT1C103NS5	0.01 16V [M]
C103	ECBT1C103NS5	0.01 16V [M]
C104	ECBT1H102KB5	1000P 50V [M]
C105	ECBT1H470J5	47P 50V [M]
C106	ECBT1C103NS5	0.01 16V [M]
C107	ECBT1H473ZF5	0.047 50V [M]
C108	ECBT1H8R2KC5	8.2P 50V [M]
C109	ECBT1C103NS5	0.01 16V [M]
C110	ECBT1C103NS5	0.01 16V [M]
C111	ECEA1EKA4R7B	4.7 25V [M]
C112	ECBT1C103NS5	0.01 16V [M]
C113	ECBT1H102KB5	1000P 50V [M]
C114	ECEA1HKA3R3B	3.3 50V [M]
C115	ECEA1EKA4R7B	4.7 25V [M]
C116	ECBT1C822MS5	8200P 16V [M]
C117	ECQB1H471JM3	470P 50V [M]
C118	ECQB1H103JM3	0.01 50V [M]
C119	ECQB1H103JM3	0.01 50V [M]
C120	ECEA1HKA010B	1 50V [M]
C121	ECEA1HKA010B	1 50V [M]
C122	ECEA1HKA2R2B	2.2 50V [M]
C123	ECEA1HKA010B	1 50V [M]
C124	ECBT1H102KB5	1000P 50V [M]
C125	ECBT1H150JC5	15P 50V [M]
C126	ECBT1H104ZF5	0.1 50V [M]
C127	ECEA1CKA220B	22 16V [M]
C128	ECBT1C103NS5	0.01 16V [M]
C129	ECEA0JKA101B	100 6.3V [M]

Ref No.	Part No.	Values & Remarks
C130	ECEA0JKA101B	100 6.3V [M]
C131	ECBT1C103NS5	0.01 16V [M]
C132	ECBT1H102KB5	1000P 50V [M]
C133	ECBT1H150JC5	15P 50V [M]
C134	ECBT1H180JC5	18P 50V [M]
C135	ECBT1C103MS5	0.01 16V [M]
C136	ECBT1C103MS5	0.01 16V [M]
C137	ECBT1H561KB5	560P 50V [M]
C138	ECBT1H561KB5	560P 50V [M]
C139	ECQB1H682JM3	6800P 50V [M]
C140	ECQB1H682JM3	6800P 50V [M]
C141	ECEA1HKA010B	1 50V [M]
C142	ECEA1HKA010B	1 50V [M]
C143	ECEA1HKA010B	1 50V [M]
C144	ECEA1HKA010B	1 50V [M]
C145	ECBT1H220JC5	22P 50V [M]
C146	ECBT1H331KB5	330P 50V [M]
C147	ECBT1H102KB5	1000P 50V [M]
C148	ECBT1C103NS5	0.01 16V [M]
C149	ECBT1C103NS5	0.01 16V [M]
C150	ECBT1H104ZF5	0.1 50V [M]
C172	ECBT1H331KB5	330P 50V [M]
C173	ECEA1CKA220B	22 16V [M]
C174	ECEA1CKA101B	100 16V [M]
C175	ECBT1C103NS5	0.01 16V [M]
C176	ECBT1C103NS5	0.01 16V [M]
C181	ECBT1H471KB5	470P 50V [M]
C196	ECBT1H102KB5	1000P 50V [M]
C301	ECEA1CKA470B	47 16V [M]
C302	ECBT1E223ZF5	0.022 25V [M]
C303	ECEA1CKA470B	47 16V [M]
C304	ECBT1E223ZF5	0.022 25V [M]
C305	ECBT1H470J5	47P 50V [M]
C306	ECBT1H470J5	47P 50V [M]
C307	ECBT1H470J5	47P 50V [M]
C308	ECBT1H470J5	47P 50V [M]
C309	ECBT1H104ZF5	0.1 50V [M]
C310	ECBT1H104ZF5	0.1 50V [M]
C311	ECBT1H104ZF5	0.1 50V [M]
C312	ECBT1H104ZF5	0.1 50V [M]
C313	ECEA0JKA101B	100 6.3V [M]
C314	ECEA0JKA101B	100 6.3V [M]
C351	ECEA1CKA470B	47 16V [M]
C352	ECEA1CKA470B	47 16V [M]
C353	ECEA1CKA470B	47 16V [M]
C354	ECEA1CKA470B	47 16V [M]
C355	ECBT1H470J5	47P 50V [M]
C356	ECBT1H470J5	47P 50V [M]
C357	ECBT1H470J5	47P 50V [M]
C358	ECBT1E103ZF5	0.01 25V [M]
C359	ECBT1H104ZF5	0.1 50V [M]
C360	ECBT1H104ZF5	0.1 50V [M]
C361	ECEA0JKA101B	100 6.3V [M]
C362	ECEA0JKA101B	100 6.3V [M]
C363	ECEA0JKA101B	100 6.3V [M]
C364	ECEA0JKA101B	100 6.3V [M]
C365	ECBT1E103ZF5	0.01 25V [M]
C366	ECBT1E103ZF5	0.01 25V [M]
C381	ECA1HPXS4R7B	4.7 50V [M]
C382	ECA1HPXS4R7B	4.7 50V [M]
C383	ECA1HPXS4R7B	4.7 50V [M]
C384	ECA1HPXS4R7B	4.7 50V [M]
C385	ECA1HPXS4R7B	4.7 50V [M]
C386	ECA1HPXS4R7B	4.7 50V [M]
C387	ECA1HPXS4R7B	4.7 50V [M]
C388	ECA1HPXS4R7B	4.7 50V [M]
C389	ECA1EPXS100B	10 25V [M]
C390	ECA1EPXS100B	10 25V [M]
C401	ECA1HPXS4R7B	4.7 50V [M]
C402	ECA1HPXS4R7B	4.7 50V [M]
C403	ECBT1E103ZF5	0.01 25V [M]
C404	ECBT1E103ZF5	0.01 25V [M]
C405	ECBT1H101KB5	100P 50V [M]
C406	ECBT1H101KB5	100P 50V M]
C409	ECA1EPXS100B	10 25V [M]
C410	ECA1EPXS100B	10 25V [M]
C411	ECBT1H101KB5	100P 50V [M]
C412	ECBT1H101KB5	100P 50V [M]
C413	ECA1EPXS100B	10 25V [M]
C414	ECA1EPXS100B	10 25V [M]
C415	ECBT1E103ZF5	0.01 25V [M]
C416	ECBT1E103ZF5	0.01 25V [M]
C417	ECBT1H101KB5	100P 50V [M]
C418	ECBT1H101KB5	100P 50V [M]
C419	ECBT1H331KB5	330P 50V [M]
C420	ECBT1H331KB5	330P 50V [M]
C421	ECBT1H331KB5	330P 50V [M]
C422	ECBT1H331KB5	330P 50V [M]
C423	ECBT1H101KB5	100P 50V [M]
C424	ECBT1H101KB5	100P 50V [M]
C425	ECBT1H101KB5	100P 50V [M]
C426	ECBT1H101KB5	100P 50V [M]
C427	ECBT1H221KB5	220P 50V [M]
C428	ECBT1H221KB5	220P 50V [M]
C429	ECBT1H101KB5	100P 50V [M]
C430	ECBT1H101KB5	100P 50V [M]
C431	ECA1EPXS100B	10 25V [M]
C432	ECA1EPXS100B	10 25V [M]
C433	ECBT1H101KB5	100P 50V [M]
C434	ECBT1H101KB5	100P 50V [M]
C435	ECBT1H101KB5	100P 50V [M]
C436	ECBT1H101KB5	100P 50V [M]
C439	ECBT1E103ZF5	0.01 25V [M]
C440	ECBT1E103ZF5	0.01 25V [M]
C441	ECEA1HKN3R3B	3.3 50V [M]
C451	ECEA1VKA4R7B	4.7 35V [M]
C452	ECEA1VKA4R7B	4.7 35V [M]
C453	ECBT1H100J5	10P 50V [M]
C454	ECBT1H100J5	10P 50V [M]
C455	ECBT1H102KB5	1000P 50V [M]
C456	ECBT1H102KB5	1000P 50V [M]
C457	ECEA1AKA330B	33 10V [M]
C458	ECEA1AKA330B	33 10V [M]
C459	ECFR1E223KR	0.022 25V [M]
C460	ECFR1E223KR	0.022 25V [M]
C461	ECFR1E682KR	6800P 25V [M]
C462	ECFR1E682KR	6800P 25V [M]
C463	ECEA1VKA4R7B	4.7 35V [M]
C464	ECEA1VKA4R7B	4.7 35V [M]
C465	ECBT1E103ZF5	0.01 25V [M]
C466	ECBT1E103ZF5	0.01 25V [M]
C469	ECBT1H181KB5	180P 50V [M]
C470	ECBT1H181KB5	180P 50V [M]
C471	ECA1HPXS4R7B	4.7 50V [M]
C472	ECA1HPXS4R7B	4.7 50V [M]
C473	ECBT1E103ZF5	0.01 25V [M]
C474	ECBT1E103ZF5	0.01 25V [M]
C475	ECBT1H101KB5	100P 50V [M]
C477	ECBT1H102KB5	1000P 50V [M]
C491	ECBT1H101KB5	100P 50V [M]
C492	ECBT1H331KB5	330P 50V [M]
C493	ECBT1H101KB5	100P 50V [M]
C494	ECBT1H101KB5	100P 50V [M]
C497	ECEA1HKA3R3B	3.3 50V [M]
C498	ECBT1H101KB5	100P 50V [M]
C501	ECQV1H333JZ3	0.033 50V [M]
C502	ECQV1H333JZ3	0.033 50V [M]
C503	ECEA0JKA101B	100 6.3V [M]
C504	ECEA0JKA101B	100 6.3V [M]
C505	ECQV1H104JZ3	0.1 50V [M]
C506	ECQV1H104JZ3	0.1 50V [M]
C507	ECBT1E103ZF5	0.01 25V [M]
C508	ECQV1H333JZ3	0.033 50V [M]
C511	ECA1HPXS4R7B	4.7 50V [M]
C512	ECA1HPXS4R7B	4.7 50V [M]
C513	ECBT1H150J5	15P 50V [M]
C514	ECBT1H150J5	15P 50V [M]
C515	ECBT1H221KB5	220P 50V [M]
C516	ECBT1H221KB5	220P 50V [M]
C517	ECBT1H330J5	33P 50V [M]
C518	ECBT1H330J5	33P 50V [M]
C519	ECA1HPXS4R7B	4.7 50V [M]
C520	ECA1HPXS4R7B	4.7 50V [M]
C521	ECA1HPXS4R7B	4.7 50V [M]
C522	ECA1HPXS4R7B	4.7 50V [M]
C523	ECQB1H123JM3	0.012 50V [M]
C524	ECQB1H123JM3	0.012 50V [M]
C525	ECQV1H683JM3	0.068 50V [M]
C526	ECQV1H683JM3	0.068 50V [M]
C527	ECQB1H562JF3	5600P 50V [M]
C528	ECQB1H562JF3	5600P 50V [M]
C529	ECQB1H273JM3	0.027 50V [M]
C530	ECQB1H273JM3	0.027 50V [M]
C531	ECBT1E103ZF5	0.01 25V [M]
C532	ECBT1E103ZF5	0.01 25V [M]
C533	ECA1EPXS100B	10 25V [M]
C534	ECA1EPXS100B	10 25V [M]
C535	ECBT1H104ZF5	0.1 50V [M]
C536	ECBT1H104ZF5	0.1 50V [M]
C537	ECA1EPXS100B	10 25V [M]
C538	ECA1EPXS100B	10 25V [M]
C539	ECA1EPXS100B	10 25V [M]
C540	ECA1EPXS100B	10 25V [M]
C541	ECA1EPXS100B	10 25V [M]
C542	ECA1EPXS100B	10 25V [M]
C543	ECBT1E103ZF5	0.01 25V [M]
C544	ECBT1E103ZF5	0.01 25V [M]
C551	ECA1HPXS4R7B	4.7 50V [M]
C552	ECA1HPXS4R7B	4.7 50V [M]
C553	ECBT1H101KB5	100P 50V [M]
C554	ECBT1H101KB5	100P 50V [M]
C555	ECBT1H221KB5	220P 50V [M]
C556	ECBT1H221KB5	220P 50V [M]
C557	ECBT1E103ZF5	0.01 25V [M]
C558	ECBT1E103ZF5	0.01 25V [M]
C559	ECA1EPXS100B	10 25V [M]
C560	ECA1EPXS100B	10 25V [M]
C561	ECA1HPXS4R7B	4.7 50V [M]
C562	ECA1HPXS4R7B	4.7 50V [M]
C563	ECBT1H101KB5	100P 50V [M]
C564	ECBT1H101KB5	100P 50V [M]
C565	ECBT1H221KB5	220P 50V [M]

Ref No.	Part No.	Values & Remarks
C566	ECBT1C392KR5	3900P 16V [M]
C567	ECBT1E103ZF5	0.01 25V [M]
C568	ECBT1E103ZF5	0.01 25V [M]
C569	ECA1HPXS4R7B	4.7 50V [M]
C570	ECQB1H223JM3	0.022 50V [M]
C571	ECA1EPXS100B	10 25V [M]
C572	ECA1EPXS100B	10 25V [M]
C573	ECBT1H680J5	68P 50V [M]
C574	ECBT1H680J5	68P 50V [M]
C575	ECA1EPXS100B	10 25V [M]
C576	ECBT1H680J5	68P 50V [M]
C577	ECA1EPXS100B	10 25V [M]
C578	ECBT1H680J5	68P 50V [M]
C579	ECA1EPXS100B	10 25V [M]
C580	ECA1EPXS100B	10 25V [M]
C581	ECBT1H680J5	68P 50V [M]
C582	ECBT1H680J5	68P 50V [M]
C583	ECBT1H102KB5	1000P 50V [M]
C584	ECBT1H102KB5	1000P 50V [M]
C585	ECA1EPXS100B	10 25V [M]
C586	ECA1EPXS100B	10 25V [M]
C591	ECBT1H104ZF5	0.1 50V [M]
C593	ECBT1E103ZF5	0.01 25V [M]
C594	ECBT1E103ZF5	0.01 25V [M]
C595	ECA1EPXS100B	10 25V [M]
C596	ECA1EPXS100B	10 25V [M]
C601	ECA1EPXS470B	47 25V [M]
C602	ECA1EPXS470B	47 25V [M]
C603	ECBT1H821KB5	820P 50V [M]
C604	ECBT1H821KB5	820P 50V [M]
C607	ECCR1H180KC5	18P 50V [M]
C608	ECCR1H180KC5	18P 50V [M]
C611	ECQV1H104JZ3	0.1 50V [M]
C612	ECQV1H104JZ3	0.1 50V [M]
C613	ECQV1H104JZ3	0.1 50V [M]
C614	ECQV1H104JZ3	0.1 50V [M]
C615	ECBT1E103ZF5	0.01 25V [M]
C616	ECA1EM101B	100 25V [M]
C617	ECEA2AN2R2SB	2.2 100V [M]
C618	ECBT1H102KB5	1000P 50V [M]
C619	ECA1EM101B	100 25V [M]
C621	ECEA2AU100B	10 100V [M]
C622	ECEA2AU100B	10 100V [M]
C625	ECEA1HN100SB	10 50V [M]
C626	ECEA1HN100SB	10 50V [M]
C631	ECQB1H223JM3	0.022 50V [M]
C632	ECQB1H223JM3	0.022 50V [M]
C633	ECQB1H223JM3	0.022 50V [M]
C634	ECQB1H223JM3	0.022 50V [M]
C635	ECKR1H223ZF5	0.022 50V [M]
C636	ECKR1H223ZF5	0.022 50V [M]
C637	ECKR1H223ZF5	0.022 50V [M]
C638	ECKR1H223ZF5	0.022 50V [M]
C641	ECA1EPXS470B	47 25V [M]
C642	ECBT1H821KB5	820P 50V [M]
C643	ECCR1H180KC5	18P 50V [M]
C644	ECQV1H104JZ3	0.1 50V [M]
C645	ECQV1H104JZ3	0.1 50V [M]
C646	ECQE2104KF3	0.1 250V [M]
C651	ECA1EPXS470B	47 25V [M]
C652	ECA1EPXS470B	47 25V [M]
C653	ECBT1H821KB5	820P 50V [M]
C654	ECBT1H821KB5	820P 50V [M]
C657	ECCR1H180KC5	18P 50V [M]
C658	ECCR1H180KC5	18P 50V [M]
C661	ECQV1H104JZ3	0.1 50V [M]
C662	ECQV1H104JZ3	0.1 50V [M]
C663	ECQV1H104JZ3	0.1 50V [M]
C664	ECQV1H104JZ3	0.1 50V [M]
C665	ECBT1E103ZF5	0.01 25V [M]
C666	ECA1EM101B	100 25V [M]
C667	ECEA2AN2R2SB	2.2 100V [M]
C668	ECBT1H102KB5	1000P 50V [M]
C669	ECA1EM101B	100 25V [M]
C671	ECEA2AU100B	10 100V [M]
C672	ECEA2AU100B	10 100V [M]
C673	ECBT1H102KB5	1000P 50V [M]
C674	ECBT1H102KB5	1000P 50V [M]
C675	ECBT1H102KB5	1000P 50V [M]
C676	ECBT1H331KB5	330P 50V [M]
C677	ECBT1H331KB5	330P 50V [M]
C691	ECA1EPXS470B	47 25V [M]
C692	ECBT1C152KR5	1500P 16V [M]
C693	ECCR1H180KC5	18P 50V [M]
C694	ECQV1H104JZ3	0.1 50V [M]
C695	ECQV1H104JZ3	0.1 50V [M]
C696	ECQE2104KF3	0.1 250V [M]
C701	ECBT1E103ZF5	0.01 25V [M]
C702	ECQE2104KF3	0.1 250V [M]
C703	ECES1JV103UX	0.01 63V ⚠ [M]
C704	ECES1JV103UX	0.01 63V ⚠ [M]
C705	ECES1VV472N	4700 35V ⚠ [M]
C706	ECES1VV472N	4700 35V ⚠ [M]
C707	ECA1VM101B	100 35V [M]
C708	ECKR1H103ZF5	0.01 50V [M]
C709	ECEA1CKA330B	33 16V [M]
C710	ECBT1E103ZF5	0.01 25V [M]
C711	ECKR1H103ZF5	0.01 50V [M]
C712	ECEA1HKA100B	10 50V [M]
C713	ECKR1H103ZF5	0.01 50V [M]
C714	ECEA1EKA470B	47 25V [M]
C715	ECEA1CKA101B	100 16V [M]
C716	ECQE2104KF3	0.1 250V ⚠ [M]
C721	ECQE2104KF3	0.1 250V ⚠ [M]
C751	ECKWRS102MBC	1000P 400V ⚠ [M]
C752	ECKR1H103ZF5	0.01 50V [M]
C753	ECA1EM102E	1000 25V ⚠ [M]
C754	ECBT1E103ZF5	0.01 25V [M]
C755	ECEA1CU470B	47 16V [M]
C757	ECA1CM100B	10 16V [M]
C758	ECEA1AKA101B	100 10V [M]
C771	ECEA1HKA4R7B	4.7 50V [M]
C772	ECEA1HKA4R7B	4.7 50V [M]
C773	ECBT1E223ZF5	0.022 25V [M]
C774	ECEA0JKA101B	100 6.3V [M]
C775	ECEA1CKA100B	10 16V [M]
C776	ECEA1HKA010B	1 50V [M]
C891	ECBT1H102KB5	1000P 50V [M]
C892	ECBT1H102KB5	1000P 50V [M]
C893	ECEA1CKA100B	10 16V [M]
C901	ECA0JM102B	02 6.3V [M]
C902	ECBT1H104ZF5	0.1 50V [M]
C903	ECBT1H104ZF5	0.1 50V [M]
C904	ECA0JM102B	02 6.3V [M]
C905	ECBT1E103ZF5	0.01 25V [M]
C906	ECEA0JKA101B	100 6.3V [M]
C907	ECEA0JKA101B	100 6.3V [M]
C908	ECBT1E103ZF5	0.01 25V [M]
C909	ECEA1VKA220B	22 35V [M]
C910	ECEA1VKA220B	22 35V [M]
C911	ECEA1VKA220B	22 35V [M]
C912	ECEA1VKA220B	22 35V [M]
C913	ECEA1VKA100B	10 35V [M]
C914	ECEA1VKA100B	10 35V [M]
C916	ECEA1HKA010B	1 50V [M]
C920	ECEA1HKA010B	1 50V [M]
C933	ECBT1H101KB5	100P 50V [M]
C935	ECBT1H101KB5	100P 50V [M]
C936	ECBT1H101KB5	100P 50V [M]
C937	ECBT1H101KB5	100P 50V [M]
C956	ECBT1H101KB5	100P 50V [M]
C959	ECBT1H104ZF5	0.1 50V [M]
C960	ECBT1H104ZF5	0.1 50V [M]
C984	ECBT1H101KB5	100P 50V [M]
C985	ECBT1H101KB5	100P 50V [M]
C991	ECBT1H101KB5	100P 50V [M]
C992	ECBT1H101KB5	100P 50V [M]
C993	ECBT1H331KB5	330P 50V [M]
C996	ECA1EPXS100B	10 25V [M]
C997	ECEA1CKA100B	10 16V [M]
C998	ECBT1E103ZF5	0.01 25V [M]
C1001	ECEA1HKA010B	1 50V [M]
C1002	ECEA1HKA010B	1 50V [M]
C1003	ECEA1HKA3R3B	3.3 50V [M]
C1004	ECEA1HKA3R3B	3.3 50V [M]
C1005	ECEA1HKA010B	1 50V [M]
C1007	ECFR1E223KR	0.022 25V [M]
C1008	ECFR1E473KR	0.047 25V [M]
C1009	ECEA0JU221B	220 6.3V [M]
C1010	ECEA1CKA100B	10 16V [M]
C1011	ECEA1CKA100B	10 16V [M]
C1012	ECEA1CKA100B	10 16V [M]
C1013	ECEA1CKA100B	10 16V [M]
C1014	ECEA0JU221B	220 6.3V [M]
C1015	ECQV1H104JM3	0.1 50V [M]
C1016	ECQV1H104JM3	0.1 50V [M]
C1017	ECEA1HKAR47B	0.47 50V [M]
C1018	ECEA1HKA4R7B	4.7 50V [M]
C1019	ECEA1HKAR47B	0.47 50V [M]
C1020	ECEA1HKA4R7B	4.7 50V [M]
C1021	ECEA1HKAR15B	0.15 50V [M]
C1022	ECEA1HKA3R3B	3.3 50V [M]
C1023	ECQV1H154JM3	0.15 50V [M]
C1024	ECQV1H154JM3	0.15 50V [M]
C1025	ECEA1HKA3R3B	3.3 50V [M]
C1026	ECEA1HKAR15B	0.15 50V [M]
C1027	ECEA1HKA4R7B	4.7 50V [M]
C1028	ECEA1HKAR47B	0.47 50V [M]
C1029	ECEA1HKA4R7B	4.7 50V [M]
C1030	ECEA1HKAR47B	0.47 50V [M]
C1031	ECQV1H104JM3	0.1 50V [M]
C1032	ECQV1H104JM3	0.1 50V [M]
C1033	ECEA0JKA470B	47 6.3V [M]
C1034	ECQV1H474JM3	0.47 50V [M]
C1035	ECBT1H681KB5	680P 50V [M]
C1036	ECBT1H101KB5	100P 50V [M]
C1037	ECBT1H101KB5	100P 50V [M]
C1038	ECBT1H101KB5	100P 50V [M]
C1039	ECEA1CKA101B	100 16V [M]
C1040	ECEA1CKA100B	10 16V [M]
C1041	ECBT1E103ZF5	0.01 25V [M]
C1043	ECA1EPXS100B	10 25V [M]

Ref No.	Part No.	Values & Remarks
C1044	ECA1EPXS100B	10 25V [M]
C1051	ECEA1HKA2R2B	2.2 50V [M]
C1052	ECEA1HKAR33B	0.33 50V [M]
C1053	ECEA1HKA3R3B	3.3 50V [M]
C1054	ECEA0JU221B	220 6.3V [M]
C1055	ECEA1HKAR47B	0.47 50V [M]
C1056	ECFR1E823KR	0.082 25V [M]
C1057	ECFR1E332KR	3300P 25V [M]
C1058	ECFR1E823KR	0.082 25V [M]
C1059	ECEA1CKA101B	100 16V [M]
C1060	ECBT1E223ZF5	0.022 25V [M]
C1062	ECBT1E223ZF5	0.022 25V [M]
C1063	ECEA1CKA101B	100 16V [M]
C1064	ECEA1HKA010B	1 50V [M]
C1065	ECBT1H681KB5	680P 50V [M]
C1067	ECBT1C152KR5	1500P 16V [M]
C1068	ECBT1C152KR5	1500P 16V [M]
C1151	ECEA1HKA010B	1 50V [M]
C1152	ECFR1E823KR	0.082 25V [M]
C1153	ECFR1E393KR	0.039 25V [M]
C1154	ECEA1VKA4R7B	4.7 35V [M]
C1156	ECBT1E103ZF5	0.01 25V [M]
C1157	ECBT1E103ZF5	0.01 25V [M]
C1159	ECEA1HKA010B	1 50V [M]
C1161	ECBT1H101KB5	100P 50V [M]
C1683	ECBT1C332KR5	3300P 16V [M]
C1684	ECBT1C332KR5	3300P 16V [M]
C1685	ECBT1E103ZF5	0.01 25V [M]

Ref No.	Part No.	Values & Remarks

Ref No.	Part No.	Values & Remarks

Ref No.	Part No.	Values & Remarks

Packing Materials & Accessories

Notes : * Important safety notice :
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
* The parenthesized in the Remarks columns specify the areas. (Refer to the cover page for area.)
* Parts without these indication can be used for all areas.
* [M] in Remarks column indicates parts supplied by **MESA**.
* The "(SF)" mark denotes the standard part.
* Remote Control Unit : Supply period for three years from terminal of production.
* Reference for O/I book languages are as follows :

Ar	: Arabic	Cf	: Canadian French	Ch	: Chinese	Cz	: Czech	Da	: Danish
Du	: Dutch	En	: English	Fr	: French	Ge	: German	It	: Italian
Ko	: Korean	Po	: Polish	Ru	: Russian	Sp	: Spanish	Sw	: Swedish

Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPG3908	PACKING CASE	[M] GC GN
P1	RPG3909	PACKING CASE	[M]GK
P2	RPN1129	POLYFORM	[M]
P3	RPFX0005	MIRAMAT BAG	[M]

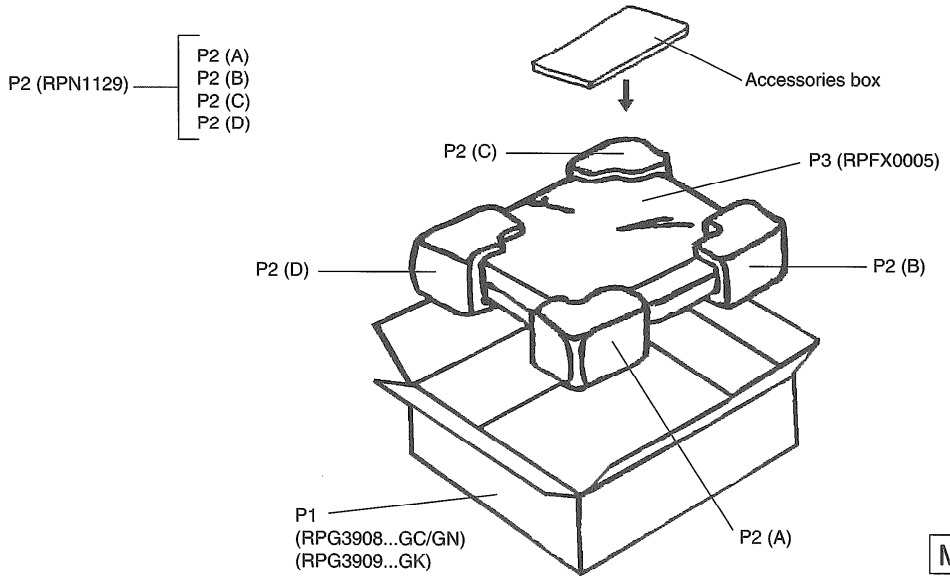
Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES	
A1	EUR646469	REMOTE CONTROL	[M]
A1-1	UR64EC1987	R/C BATTERY COVER	[M]
A2	RQT4465-L	O/I BOOK (En)	[M]GC GN
A2	RQT4466-G	O/I BOOK (Ar,Ch.Sp)	[M]GC GK
A2	RQT4467-B	O/I BOOK R/C (En)	[M]GC GN
A2	RQT4472-G	O/I BOOK R/C (Ar,Ch,Sp)	[M]GC GK
A3	RJA0019-2K	AC CORD (SF) ⚠	[M]GC
A3	RJA0035-X	AC CORD (SF) ⚠	[M]GN

Ref No.	Part No.	Part Name & Description	Remarks
A3	RJA0055-K	AC CORD ⚠	[M]GK
A4	RSA0010	LOOP ANT UNIT	[M]
A5	RSA0007	FM ANTENNA	[M]
A8	RFE0014	ANTENNA PLUG	[M]
A9	RJP1SG04-H	AC CORD ADAPTOR	[M]GC

Packaging

ACCESSORIES

(SPSD152)	: ACCESSORY CASE	A3 (RJA0035-X)... GN	: AC CORD
A1 (EUR646469)	: REMOTE CONTROL UNIT	A3 (RJA0055-K)... GK	: AC CORD
A2 (RQT4465-L)... GC/GN	: I/O BOOK	A4 (RSA0010)	: AM LOOP ANT
A2 (RQT4466-G)... GC/GK	: I/O BOOK	A5 (RSA0007)	: FM ANTENNA
A2 (RQT4467-B)... GC/GN	: I/O BOOK FOR R/C	A8 (RFE0014)	: ANTENNA PLUG
A2 (RQT4472-G)... GC/GK	: I/O BOOK FOR R/C	A9 (RJP1SG04-H)... GC	: AC CORD ADAPTOR
A3 (RJA0019-2K)... GC	: AC CORD		



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